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ALBERTA

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MINES  
BRANCH

REPORTS

1918-20

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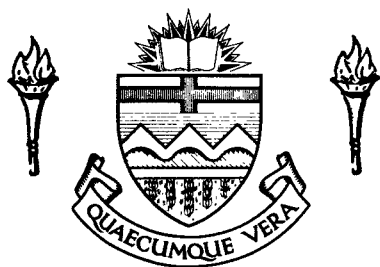
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ANNUAL REPORT  
OF  
**THE MINES BRANCH**  
OF THE  
PROVINCE OF ALBERTA  
1918

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PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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EDMONTON, FEBRUARY 15, 1919.

L. C. CHARLESWORTH, ESQ.,  
*Deputy Minister of Public Works,*  
Edmonton, Alberta.

Sir,—In accordance with the provisions of The Mines Act, I herewith submit my report of the Mines Branch for the year ending December 31, 1918.

The Mines Act, which became effective on August 1, 1913, was amended at the 1918 Session of the Legislature, the principal changes made being provisions for bringing all operations, incidental to the extraction of coal by removing the over-lying strata, within the scope of the Act, and for requiring monthly reports with reference to output, etc., to be made to the Minister, instead of yearly reports as formerly. The Act was also amended to give the Lieutenant Governor in Council power to grant leases for mining coal under road allowances, to make arrangements for the installation and operation of mine rescue stations, and to make regulations regarding wash-houses and emergency hospitals.

The list of permitted explosives was amended on November 5, 1918, so that this list contains now only the explosives known as Monobel No. 1, Polar Permitite, Viking No. 1, and Dynobel No. 2.

The most serious accident which occurred during the year was at the mine operated by the Oliphant-Munson Collieries, Ltd., near Coalspur, in which a building containing a small amount of powder was destroyed by fire, with the result that the powder exploded, killing the manager and blacksmith, and injuring four men seriously and eleven slightly. A fire also occurred during December, 1918, at Cardiff, by which the office of the Cardiff Collieries, Ltd., was completely destroyed. No satisfactory explanation could be obtained as to the causes of these fires.

During the year underground fires occurred at the mines operated by the Cardiff Collieries, Ltd., the Lakeside Coals, Ltd., the Humberstone Coal Company, Ltd., and the Franco-Canadian Collieries, Ltd. The fire at the mine operated by the Cardiff Collieries, Limited, has been in existence for several years, and it was thought that it had been successfully cut off from the workings, but during the month of August it found its way through several barrier pillars, the result being that the management was forced to abandon that portion of the mine. The fire which occurred at the mine operated by the Lakeside Coals, Limited, took place during the month of May in an abandoned portion of the mine. These workings were afterwards sealed off by stoppings and water pumped into this area by an electrically driven pump, but the fire has not yet been extinguished. It would appear that the fire which broke out in the mine operated by the Humberstone Coal Co., Ltd., near Clover Bar, had been caused by coal burning on the outcrop of the seam on the banks of the North Saskatchewan river several years previously. The area in which this

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fire occurred was sealed off by clay stoppings which were later reinforced by brick and cement. During the month of April an explosion occurred in the mine operated by the Franco-Canadian Collieries, Ltd., by which two men were slightly burned about the face and hands. This explosion, as far as could be ascertained, was caused by gas coming in contact with a fire which had been burning for several years in the upper portion of the mine, and which had been sealed off. The pillars surrounding the area where the fire was burning, caved, with the result that the gas became ignited. This mine is now abandoned.

An explosion of gas took place during the year in the mine operated by the Canmore Coal Co., Ltd., by which five men were more or less injured. This explosion was the result of insufficient inspection of the place where the shot was about to be fired. The effects of the explosion was felt for approximately 200 feet from the point of ignition, but the dust present did not show any signs of coking. Another explosion of gas occurred in the No. 3 mine operated by the Department of Natural Resources of the Canadian Pacific Railway Company at Lethbridge, by which a small quantity of gas, which accumulated in a cavity in the roof, was ignited.

During the year twenty-two persons lost their lives from accidents as compared with twenty-four during the year 1917. Of these fatal accidents, three occurred above ground and nineteen below ground. Sixteen persons were seriously injured above ground and forty-four below ground, and twenty-one persons were slightly injured above ground and fifty-six below ground.

In addition to the inspections which have been made, from time to time, of the different mines by the District Inspectors, all fatal and serious accidents have been investigated and all inquests attended.

Samples of mine air have been taken throughout the year by the District Inspectors, in addition to tests made by them, with the Burrell Gas Detector. These samples have been forwarded to the Department of Mines, Ottawa, and to the University of Alberta for analysis.

2,881 safety lamps of the Wolfe type, 35 of the Koehler type, 13 of the Marsaut type, 1,960 electric portable lamps of the Edison type, 600 of the Wico type and 50 of the Ceag type are in use. It will be noted that a considerable increase has taken place in the number of electric safety lamps in use, compared with previous years.

Training in connection with Mine Rescue work has been carried on satisfactorily throughout the year, there being three mine rescue cars and six stations at present in operation. Several appointments were made to fill vacancies caused by the resignations of Superintendents, and in every case a returned soldier received the appointment. When these appointments are made, due consideration is given to a man's efficiency and experience in mining, and in all cases these positions are being satisfactorily filled. On July 1, 1918, a competition in Mine Rescue and First Aid Work was held under the auspices of the Rocky Mountain Branch of the Canadian Mining Institute, at Lethbridge. Fuller particulars of this competition are given in the report under the heading of Mine Rescue Work.

There were 317 coal mines, two copper ore and two shale mines in operation during the year, seventy of which were opened, nine re-

opened and seventy-one abandoned. The mines in the Peace River District which were opened in 1916 have been abandoned, and no coal was produced in that district during the past year.

The total output of coal for the year 1918 was 6,148,620 tons, exceeding that for the year 1917 by 1,285,206 tons. The largest monthly production was during the month of January, when 646,368 tons were produced. Alberta is now in the position, for the first time, of being the largest coal-producing Province in Canada, 40.54 per cent. of the whole output of the Dominion being produced in Alberta.

Nine persons were prosecuted for contravention of The Mines Act during the year, convictions being obtained in each case.

Several changes in the staff of inspectors took place during the year. Mr. James Crowder, formerly manager of the Drumheller Land Co., Ltd., at Drumheller, was appointed District Inspector of Mines, succeeding Mr. William Stevenson, who took the position of General Manager of the Hillcrest Collieries, Ltd., at Hillcrest. Mr. Robert J. Lee, formerly manager of the Rock Springs Coal & Brick Co., Ltd., at Elcan, was appointed District Inspector of Mines for the Edmonton District, this being an additional appointment.

Mr. John W. Hooks was appointed superintendent of Mine Rescue Car No. 3, and Mr. Edward Royle, superintendent of Mine Rescue Car No. 1.

The number of persons employed in mines during December, 1918, was 10,209, being an increase of 397 over the number employed during December, 1917.

The question of widening the market for Alberta coal has received a great deal of attention during the past year, the result being that the amount of coal produced during 1918 exceeded the amount produced during 1917 by 26.42 per cent. On April 29, 1918, I was appointed Fuel Administrator by the Provincial Government to assist Mr. C. A. Magrath, Fuel Controller for the Dominion of Canada. A considerable amount of advertising was done through newspapers and other publications, and in addition a film, 1400 feet in length, showing the different mining operations, was produced, and is at present being shown in different theatres in the Province of Manitoba. Unfortunately the cost of production and freight rates have increased during the last two years to such an extent that it is difficult for Alberta coal to compete satisfactorily against American coal in the Manitoba and Saskatchewan markets. The average cost of production for labor alone, during the twelve months ending May 31, 1918, was \$2.07 per ton for domestic run of mine coal and \$2.01 per ton for steam run of mine coal as compared with \$2.36 per ton for domestic coal and \$2.18 per ton for steam coal for the six months ending December 31, 1918. In addition to this the cost of material has also increased to a great extent.

Although the amount of coal produced during 1918 was considerably in excess of that produced during 1917, this amount only represents approximately 50 per cent of the possible production in the Province with the present development, and if anything is to be done to obtain the Manitoba market by having a decreased cost of produc-

tion, the first thing to consider is the question of regulating the production in such a way that the coal mines in operation should produce at least 80 per cent of what they are capable of doing. It is also important that only the best grades of coal which we can produce in the Province are shipped into the markets where Alberta coal has to compete with imported coal, and this can only be done by instituting a system of zoning such as has been done in the United States during the last two years. The procedure would, of course, be harmful to the mines producing low grades of fuel, inasmuch as their market would be restricted, but it would undoubtedly be to the benefit of the Province as a whole.

The payroll for labor, at mines alone, during the year 1918, was approximately \$14,000,000, so that it will readily be seen the important part which the mining industry will take in the Province if it is conducted along proper lines.

From figures supplied by the Federal Government, there is a market available for Alberta coal of approximately nine million tons per year, and at least fifty per cent of this market can only be obtained if all coal is properly prepared, and only that of the best quality is sold in the territory into which American coal is shipped.

The following tables show the quantities in tons of coal entered for consumption during the years 1916, 1917 and 1918 through ports in the Provinces of Manitoba, Saskatchewan and Alberta, and including the ports of Fort Frances, Fort William and Port Arthur.

## BITUMINOUS.

	1916	1917	1918
January -----	247,584	289,379	-----
February -----	237,246	116,267	-----
March -----	135,393	154,640	-----
April -----	62,926	79,851	-----
May -----	110,671	143,116	-----
June -----	239,703	161,843	-----
July -----	282,696	300,690	-----
August -----	254,586	368,285	-----
September -----	236,111	233,043	-----
October -----	210,622	-----	-----
November -----	194,017	-----	-----
December -----	165,379	-----	-----
Total -----	2,376,934	1,847,094	2,240,447

## ANTHRACITE.

	1916	1917	1918
January -----	4,075	3,278	-----
February -----	16,665	5,333	-----
March -----	2,995	2,842	-----
April -----	443	78	-----
May -----	20,306	51,863	-----
June -----	83,157	89,056	-----
July -----	123,281	89,665	-----
August -----	81,176	65,231	-----
September -----	78,636	59,041	-----
October -----	50,816	-----	-----
November -----	40,410	-----	-----
December -----	31,682	-----	-----
Total -----	533,642	366,387	318,594

The figures showing importation for the year 1917 are for nine months ending September 30, no figures being available for the last three months of the year.

No figures are available showing the amount of coal imported by months during the year 1918.

## THE MINES BRANCH

## ANNUAL CONSUMPTION OF COAL IN CANADA.

Calendar Year	Canadian		Imported		Total	Per Capita
	Short Tons	%	Short Tons	%		
1905	7,032,661	48.9	7,343,880	51.1	14,376,541	2.362
1906	7,927,560	51.7	7,398,906	48.3	15,326,466	2.425
1907	8,617,352	45.0	10,549,503	55.0	19,166,855	2.947
1908	9,156,478	47.3	10,195,424	52.7	19,351,902	2.820
1909	8,913,376	47.9	9,711,826	52.1	18,625,202	2.682
1910	10,532,103	50.2	10,438,123	49.8	20,970,226	2.960
1911	9,822,749	40.5	14,424,949	59.5	24,247,698	3.384
1912	12,385,696	46.0	14,549,104	54.0	26,934,800	3.596
1913	13,450,158	42.6	18,132,387	57.4	31,582,545	4.071
1914	12,214,403	45.5	14,637,920	54.5	26,852,323	3.325
1915	11,500,480	48.1	12,406,212	51.9	23,906,692	----
1916	12,348,036	41.3	17,517,820	58.7	29,865,856	----
1917	14,046,759	40.2	20,857,460	59.8	34,904,219	----
1918	15,180,000	40.8	22,057,065	59.2	37,237,065	----

American coal shipped into Canada, by Provinces East and West, for the Year ending December 31, 1918:

East	Anthracite	Bituminous	Total
Ontario -----	2,842,970	10,994,289	13,837,259
Quebec -----	1,500,669	4,033,618	5,534,287
Nova Scotia -----	43,792	1,097	44,889
New Brunswick -----	71,450	5,035	76,485
Prince Edward Island ---	5,104	-----	5,104
Total (tons) -----	4,463,985	15,034,039	19,498,024

West	Anthracite	Bituminous	Total
Fort William -----	249,910	1,562,314	1,812,224
Port Arthur -----	65,594	643,728	709,322
Manitoba -----	2,827	28,234	31,061
Saskatchewan -----	37	419	456
Alberta -----	-----	913	913
British Columbia -----	226	4,784	5,010
Yukon -----	-----	55	55
Total (tons) -----	318,594	2,240,447	2,559,041

Total amount imported into Canada, for year ending December 31, 1918:

	Western Canada	Eastern Canada	Total
Anthracite and Bituminous (tons) -----	2,559,041	19,498,024	22,057,065

## SUMMARY OF STATISTICS.

Number of short tons of coal produced.....	6,148,620
Number of short tons of briquettes produced.....	100,470
Number of short tons of coke produced.....	32,858
Number of short tons of shale produced for making bricks.....	9,898
Number of short tons of bricks sold.....	7,687
Number of coal mines in operation.....	317
Number of copper ore mines in operation.....	2
Number of shale mines in operation.....	2
Number of mines opened.....	70
Number of mines re-opened.....	9
Number of mines abandoned.....	71
Average number of persons employed above ground.....	2,633
Average number of persons employed below ground.....	6,141
Number of separate accidents causing loss of life.....	21
Number of deaths caused by accidents above ground.....	3
Number of deaths caused by accidents below ground.....	19
Number of serious accidents above ground.....	16
Number of serious accidents below ground.....	44
Number of slight accidents above ground.....	21
Number of slight accidents below ground.....	56
Number of persons prosecuted under The Mines Act.....	9
Number of Provisional Overmen's Certificates issued during 1918.....	223
Number of Third Class Certificates issued during 1918.....	45
Number of Second Class Certificates issued during 1918.....	28
Number of First Class Certificates issued during 1918.....	9
Number of Mine Surveyors' Certificates issued during 1918.....	7
Number of Mine Rescue Certificates issued during 1918.....	108
Total number of Third Class Certificates issued to date.....	532
Total number of Second Class Certificates issued to date.....	253
Total number of First Class Certificates issued to date.....	185
Total number of Mine Surveyors' Certificates issued to date.....	140
Total number of Mine Rescue Certificates issued to date.....	448

In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. Alberta and Saskatchewan	Output in tons Alberta
1901.....	346,649	
1902.....	510,674	
1903.....	622,939	
1904.....	782,931	
1905.....		811,228
1906.....		1,385,000
1907.....		1,834,745
1908.....		1,845,000
1909.....		2,174,329
1910.....		3,036,757
1911.....		1,694,564
1912.....		3,446,349
1913.....		4,306,346
1914.....		3,821,739
1915.....		3,434,891
1916.....		4,648,604
1917.....		4,863,414
1918.....		6,148,620

CLASSIFICATION OF OUTPUTS DURING THE YEARS 1901 TO 1918  
INCLUSIVE.

Year	Domestic	Domestic and Bituminous	Bituminous	Anthracite	Coal Used in Coke Production	Briquettes	Coke
*1901	-----	331,907	-----	14,742	-----	-----	-----
*1902	-----	494,087	-----	16,587	-----	-----	-----
*1903	-----	617,754	-----	5,185	-----	-----	-----
*1904	-----	759,568	-----	23,363	-----	-----	-----
1905	-----	972,686	-----	43,653	71,292	-----	46,640
1906	602,780	-----	546,623	235,597	103,936	-----	69,844
1907	639,335	-----	939,295	256,115	112,887	49,585	73,782
1908	584,334	-----	1,011,571	249,095	128,397	36,261	75,657
1909	763,673	-----	1,197,399	213,257	148,104	89,785	87,812
1910	878,011	-----	1,896,961	261,785	196,249	108,996	121,578
1911	964,700	-----	649,745	80,119	61,591	48,200	35,984
1912	1,341,389	-----	1,926,371	178,589	170,818	90,000	105,684
1913	1,763,225	-----	2,374,401	168,720	104,012	130,861	65,167
1914	1,697,401	-----	1,953,367	170,971	44,249	109,082	29,058
1915	1,682,922	-----	1,626,237	125,732	38,878	83,180	23,826
1916	2,172,801	-----	2,335,259	140,544	67,105	107,959	41,950
1917	2,537,829	-----	2,206,868	118,717	51,905	93,818	31,630
1918	3,035,061	-----	2,982,334	131,225	53,462	100,470	32,858

\*Includes outputs from Alberta and Saskatchewan.

During the year 1909 a strike affecting all the larger mines in the Province lasted for a period of three months.

During the year 1911 a strike affecting all the larger mines in the Province lasted for a period of eight months.

During the year 1917 a strike affecting all the larger mines in the Province lasted for a period of three months.



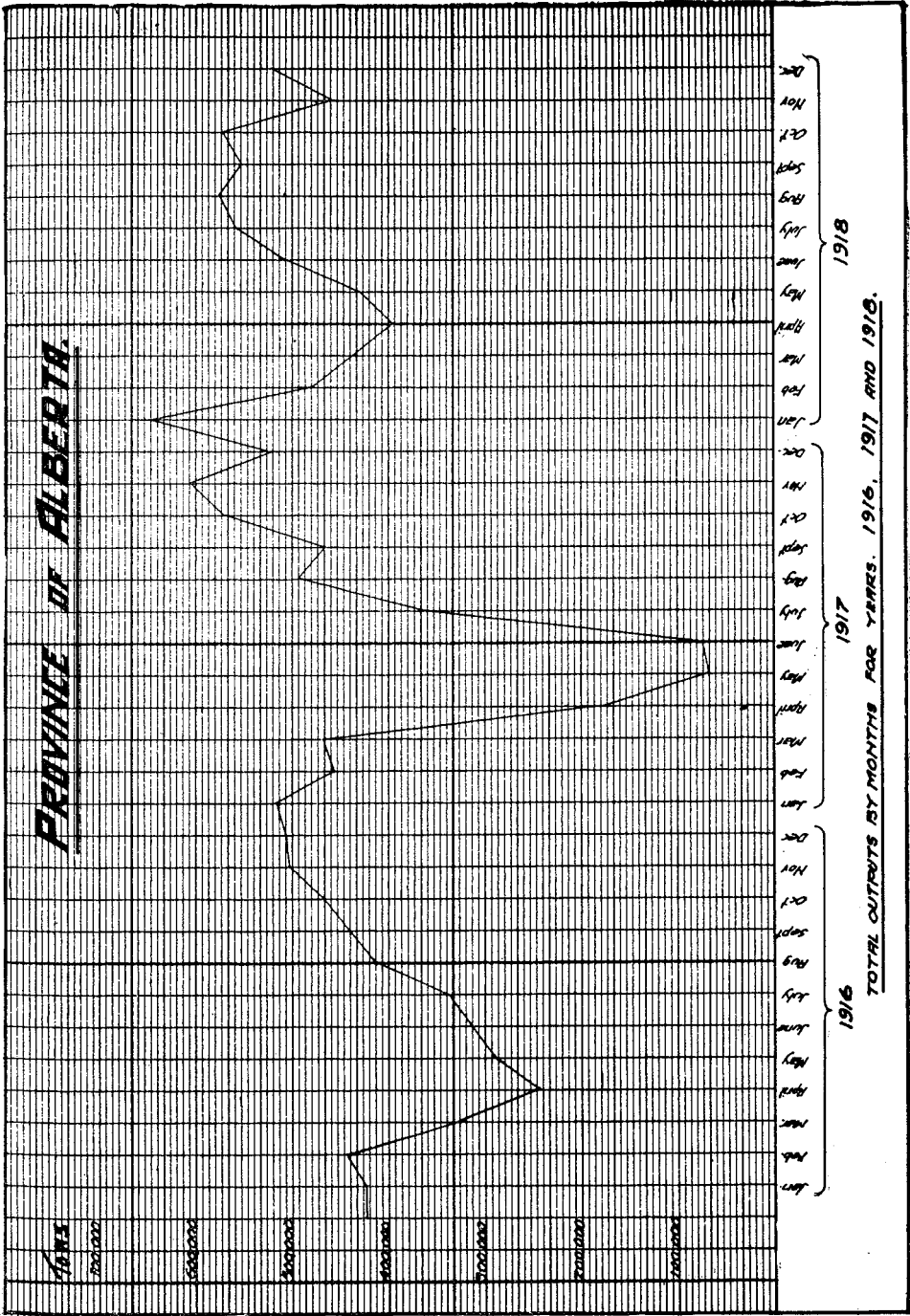
The following table shows the outputs of the different districts for the years 1917 and 1918:

DISTRICTS	1917			1918		
	Domestic	Bituminous	Anthracite	Domestic	Bituminous	Anthracite
Crow's Nest Pass		1,193,313			1,601,486	
Pincher Creek	6,804			3,955		
Lethbridge	619,850			857,092		
Magrath	1,011			1,627		
Milk River	9,140			6,848		
Taber	175,666			183,485		
Bow Island	6,846			7,283		
Medicine Hat	14,846			19,028		
Aldersyde	7,339			8,069		
High River	1,096			570		
Canmore		196,233			274,709	
Banff			118,717			131,225
Drumheller	660,974			881,081		
Big Valley	29,897			34,718		
Brazeau		266,897			371,562	
Brooks	8,283			9,783		
Hanna	26,064			29,533		
Lacombe	18,223			15,201		
Trochu	14,134			18,248		
Three Hills	24,874			30,150		
Carbon	4,615			5,431		
Battle River	10,544			12,203		
Camrose	61,293			56,597		
Tofield	71,510			66,054		
Clover Bar	263,857			264,868		
Edmonton	120,519			106,756		
Namoo	19,406			21,660		
Cardiff	257,459			266,142		
Wabamun	19,007			18,250		
Pembina	84,349			109,429		
Jasper Park		250,079			283,342	
Yellowhead Pass		146,949			195,972	
Mountain Park		153,397			255,263	
Peace River	223					
Total	2,537,829	2,206,868	118,717	3,035,061	2,982,334	131,225

The following table indicates how the total outputs of COAL, BRIQUETTES and COKE were disposed of:

SOLD FOR CONSUMPTION IN													Slack put on Waste Heap	Total Output for Year (includ- ing slack)
	SOLD FOR CONSUMPTION IN						USED			Lifted from Stock				
	Alberta	British Columbia	Saskat- chewan	Manitoba	Ontario	United States	Total Sales	Making Briquet- tes	Making Coke		Under Colliery Boilers			
Domestic	1,205,419	26,849	1,091,544	387,728	444	3,154	2,715,138	-----	-----	194,148	3,802	129,577	3,035,061	
Bituminous	2,219,794	69,163	273,195	120,132	185	130,082	2,812,551	-----	53,462	109,668	8,778	15,431	2,982,334	
Anthracite	14,941	5,177	7,700	3,308	-----	40	31,166	55,402	-----	28,837	327	16,147	131,225	
Total	3,440,154	101,189	1,372,439	511,168	629	133,276	5,558,855	55,402	53,462	332,653	12,907	161,155	6,148,620	
Briquettes	71,519	4,368	16,060	7,710	-----	-----	99,657	-----	-----	26	-----	In Stock	100,470	
Coke	232	31,225	232	870	-----	102	32,661	-----	-----	-----	-----	197	32,858	

The bituminous coal shown in these tables as being sold for consumption in Alberta includes coal sold to railway companies for the use of locomotives, a considerable percentage of which was probably used in other Provinces.



The following table indicates how the total output of Domestic coal from the Province was disposed of:

NAME OF DISTRICT	SOLD FOR CONSUMPTION IN						Total Sales	Used Under Colliery Boilers	Slack put on Waste Heap	Total Output for Year (including slack)
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	United States				
Pincher Creek	3,683	---	---	180	---	55	3,949	---	6	3,955
Lethbridge	230,569	14,770	397,346	90,107	115	191	733,098	77,276	46,718	857,092
Magrath	1,582	---	---	---	---	---	1,582	---	45	1,627
Milk River	6,398	---	---	---	---	63	6,461	7	380	6,848
Taber	23,387	3,193	85,673	31,170	91	810	144,324	20,337	18,824	183,485
Bow Island	6,806	---	---	---	---	---	6,806	---	477	7,283
Medicine Hat	5,371	---	---	---	---	---	18,239	21	768	19,028
Aldersyde	7,533	---	9,667	1,677	---	1,524	7,533	---	536	8,069
High River	560	---	---	---	---	---	560	---	10	570
Drumheller	158,344	3,825	448,071	204,161	172	511	815,084	41,773	24,224	881,081
Big Valley	32,984	---	---	1,145	---	---	34,129	580	9	34,718
Brooks	9,727	---	---	---	---	---	9,727	---	56	9,783
Hanna	28,186	---	---	---	---	---	28,186	588	759	29,533
Lacombe	13,399	---	789	124	---	---	14,312	113	776	15,201
Trochu	14,888	---	500	66	---	---	15,454	624	2,170	18,248
Three Hills	16,339	70	5,669	2,615	---	---	24,693	1,848	3,609	30,150
Carbon	5,409	---	---	---	---	---	5,409	---	22	5,431
Battle River	11,555	---	---	---	---	---	11,555	---	648	12,203
Camrose	34,311	27	18,165	268	---	---	52,771	1,245	2,581	56,597
Tofield	50,338	---	10,829	3,628	---	---	64,795	1,021	238	66,054
Clover Bar	186,497	210	36,805	15,336	---	---	238,848	17,663	8,357	264,868
Edmonton	82,454	---	12,600	1,620	32	---	96,706	10,010	40	106,756
Namoo	12,909	---	4,715	1,305	---	---	18,929	444	2,287	21,660
Cardiff	209,802	631	28,592	9,155	---	---	248,180	13,266	4,696	266,142
Wabamun	9,244	---	32	3,424	---	---	18,731	519	---	19,250
Pembina	43,144	4,091	26,061	21,747	---	---	95,077	6,813	7,539	109,429
Peace River	---	---	---	---	---	---	---	---	---	---
Total	1,205,419	26,849	1,091,544	387,728	444	3,154	2,715,138	194,148	125,775	3,035,061

The following table indicates how the total output of BITUMINOUS coal from the Province was disposed of:

	SOLD FOR CONSUMPTION IN					Total Sales	USED			Slack put on Waste Heap	Total Output for Year (including Slack)
	Alberta	British Columbia	Saskat- chewan	Manitoba	Ontario		States United	Making Coke	Under Colliery Boilers	Put to Stock	
Crow's Nest Pass	1,119,358	56,761	114,670	62,057	---	1,482,928	130,082	53,462	60,651	8,861	1,601,486
Canmore	242,583	6,541	9,490	662	---	259,276	---	---	15,408	25	274,709
Brazeau	359,878	---	4,447	2,157	---	366,482	---	---	5,991	---	371,562
Jasper Park	264,144	---	---	13,939	---	278,083	---	---	5,259	---	283,342
Yellowhead Pass	109,205	4,248	48,984	18,027	185	180,649	---	---	12,229	---	195,972
Mountain Park	124,626	1,613	95,604	23,290	---	245,133	---	---	10,130	---	255,263
Total	2,219,794	69,163	273,195	120,132	185	2,812,551	130,082	53,462	109,668	8,886	2,982,334

The following table indicates how the total outputs of ANTHRACITE, BRIQUETTES and COKE were disposed of:

	SOLD FOR CONSUMPTION IN					Total Sales	USED			Slack Put to Stock	Total Output for Year (including Slack)
	Alberta	British Columbia	Saskat- chewan	Manitoba	Ontario		United States	Making Briquettes	Under Colliery Boilers		
Anthracite	14,941	5,177	7,700	3,308	---	31,166	40	55,402	28,837	15,820	131,225
Briquettes	71,519	4,368	16,060	7,710	---	99,657	---	---	26	787	100,470
Coke	232	31,225	232	870	---	32,661	102	---	---	197	32,858

The Crow's Nest Pass was the only district in which Coke was produced during the year, and Banff in which Briquettes were produced.

The following tables give particulars of work done at the Shale Mines in the Province:

BRICKS IN TONS OF 2,000 LBS. SOLD FOR USE IN

Province	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Alberta -----	192½	115½	309½	300	343	441	299½	333¼	129	289	174	66	2,992¼
Saskatchewan -	171	281½	847½	513½	544	568	434	448	197¼	267	90	64	4,425¾
Manitoba -----	-----	-----	-----	33	-----	40	-----	33	-----	-----	-----	-----	106
Brit. Columbia	-----	-----	-----	54	-----	-----	-----	-----	33	76	-----	-----	54
U. S. A. -----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	109
Total Sales ---	363½	397	1,157	900½	887	1,049	733½	814¼	359¼	632	264	130	7,687

OUTPUT OF SHALE IN TONS OF 2,000 LBS.

SHALE USED IN MAKING BRICKS.

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Medicine Hat -	2,306	824	1,338	340	642	936	-----	918	610	433	131	1,420	9,898

AVERAGE NUMBER OF DAYS WORKED.

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Medicine Hat -	50	32	30	29	30	29	2	31	29	30	28	26	346

NUMBER OF MEN EMPLOYED IN SHALE MINES.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total. Average
Below Ground	16	7	7	7	7	7	-----	7	7	7	7	7	8
Above Ground	3	1	1	1	1	1	-----	1	1	1	1	1	1.2

MEN EMPLOYED MAKING BRICKS.

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total. Average
Medicine Hat	31	24	22	21	22	21	2	23	21	21	22	20	20.8

Mine Timber used: 7,925 lineal feet.

Explosives used: 3,278½ lbs.

Shots fired by: Elec. det. 335; by fuse 2,023.

COPPER ORE MINES.

Number of Men Employed	Days worked	Explosives used	Shots Fired by Fuse	Miss-Fires
10	50	95 lbs. Dynamite	105	0

The following table shows the total output of DOMESTIC Coal in Districts during each month :

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek	374	361	215	149	142	201	319	206	180	420	747	641	3,955
Lethbridge	86,286	80,287	73,464	63,290	60,179	62,907	70,307	77,510	69,364	73,317	57,317	77,151	857,092
Magrath	67	50	41	8			130	168	147	215	514	287	1,627
Milk River	571	536	392	235	363	447	482	510	652	945	1,045	670	6,848
Taber	24,165	22,935	5,625	2,829	5,915	13,146	17,544	19,318	19,728	21,140	13,029	17,611	183,485
Bow Island	603	611	442	390	472	350	402	399	613	1,326	1,140	535	7,283
Medicine Hat	2,623	1,040	421	179	220	556	1,408	1,944	2,579	3,841	1,960	2,257	19,028
Aldersyde	727	637	569	297	379	216	481	396	703	1,402	1,443	819	8,069
High River	53	65	50	24	48	25	20	7	29	102	99	48	570
Drumheller	96,291	13,363	29,738	7,721	38,950	93,647	123,054	127,150	105,691	82,201	77,335	85,938	881,081
Big Valley	4,535	3,562	2,442	768	1,977	2,381	2,998	2,170	2,455	3,566	4,088	5,776	34,718
Brooks	803	833	625	220	457	433	983	437	1,188	1,921	1,076	807	9,783
Hanna	2,867	2,960	2,013	558	1,323	1,462	1,669	867	2,103	5,159	5,246	3,306	29,533
Lacombe	3,607	3,132	1,006	173	505	355	309	541	767	1,889	1,865	1,252	15,201
Trochu	2,877	2,555	1,188	113	286	294	1,052	1,163	1,247	1,873	2,944	2,656	18,248
Three Hills	4,036	3,819	1,374	1,113	1,546	2,580	3,276	2,311	2,166	2,771	3,411	1,747	30,150
Carbon	547	646	346	137	305	351	576	372	342	785	661	363	5,431
Battle River	2,232	2,334	853	17	64	126	128	45	115	1,235	2,525	2,529	12,203
Camrose	10,357	8,501	3,851	1,776	1,721	2,166	2,772	2,194	2,958	5,510	6,672	8,119	56,597
Tofield	13,883	7,583	4,136	2,282	2,451	2,785	3,875	5,655	5,009	6,875	6,615	5,105	66,054
Clover Bar	45,720	31,867	17,287	7,741	9,947	20,311	20,455	17,156	19,355	23,446	26,356	25,327	264,868
Edmonton	17,851	13,692	7,577	5,187	4,838	7,165	8,215	4,160	6,367	9,916	10,973	10,315	106,756
Namoo	3,328	3,226	1,340	896	980	1,125	1,384	1,455	1,455	2,186	1,749	2,536	21,660
Cardiff	45,871	33,614	14,782	10,460	14,952	19,404	14,129	15,276	23,474	27,012	17,829	29,339	266,142
Wabamun	2,550	1,942	1,502	534	641	1,339	1,198	1,404	1,700	1,706	2,638	2,096	19,250
Pembina	15,128	9,542	2,825	2,361	7,364	9,137	6,831	11,257	11,050	14,493	11,109	83,321	109,429
Peace River													
Total	387,952	249,693	174,104	109,458	156,025	242,911	283,997	294,571	282,337	300,065	260,386	293,562	3,035,061



The following table shows the total output of BITUMINOUS Coal in Districts during each month :

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's Nest Pass -----	133,731	118,437	138,833	148,583	141,811	148,879	147,945	141,136	131,675	121,680	107,032	121,744	1,601,486
Cannore -----	23,969	23,664	23,520	26,225	22,710	24,479	25,477	22,953	23,981	24,757	21,468	11,506	274,709
Brazeau -----	28,354	24,903	23,388	32,444	35,596	32,425	35,377	41,778	37,672	38,764	17,538	23,322	371,562
Jasper Park -----	23,892	22,197	29,058	30,605	27,586	18,898	19,565	22,276	25,900	26,693	15,671	21,001	283,342
Yellowhead Pass -----	16,724	11,903	13,806	15,410	15,327	16,133	16,919	19,109	20,461	22,037	9,946	18,197	195,972
Mountain Park -----	19,123	17,762	18,886	17,261	16,668	18,841	23,508	27,269	24,870	27,780	20,974	22,521	255,263
Total -----	245,793	218,866	247,491	270,528	259,698	259,655	268,791	274,522	264,359	261,711	192,629	218,291	2,982,334

The following table shows the total output of ANTHRACITE Coal during each month :

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Banff -----	12,623	13,165	13,621	14,219	12,141	9,907	11,368	10,308	10,021	9,601	6,139	8,112	131,225

The following table shows the total output of COAL, BRIQUETTES and COKE during each month :

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Coal -----	646,368	481,724	435,216	394,205	427,864	512,473	564,156	579,401	556,717	571,377	459,154	519,965	6,148,620
Briquettes -----	8,801	7,827	9,615	10,679	9,900	6,602	9,108	9,427	7,648	7,741	6,491	6,631	100,470
Coke -----	2,670	2,272	2,934	3,503	3,220	3,364	3,162	3,560	3,340	2,460	1,250	1,123	32,858

The following table shows the total sales of DOMESTIC Coal in Districts during each month:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek	374	361	215	149	142	201	319	206	180	420	747	635	3,949
Lethbridge	77,039	70,748	65,217	53,992	49,451	54,020	59,200	64,037	58,112	66,152	49,012	66,120	733,098
Magrath	48	39	27	7	-----	-----	130	168	147	215	514	287	1,582
Milk River	553	523	379	230	332	365	405	392	623	944	1,045	670	6,461
Taber	19,127	18,238	4,780	1,707	4,171	10,130	13,947	15,743	15,114	16,759	10,510	14,098	144,324
Bow Island	573	558	390	375	448	330	356	362	566	1,264	1,074	510	6,806
Medicine Hat	2,505	993	401	171	210	522	1,307	1,866	2,492	3,703	1,880	2,189	18,239
Aldersyde	686	606	551	276	353	173	433	370	651	1,340	1,345	749	7,533
High River	53	65	50	24	38	25	20	7	29	102	99	48	560
Drumheller	88,706	11,135	27,003	6,105	35,707	89,541	115,164	119,084	97,423	74,670	70,621	79,925	815,084
Big Valley	4,485	3,512	2,392	738	1,927	2,331	2,948	2,120	2,405	3,507	4,038	3,726	34,129
Brooks	790	824	619	214	451	433	983	437	1,182	1,911	1,075	808	9,727
Hanna	2,731	2,818	1,896	477	1,251	1,393	1,565	838	2,033	4,975	5,078	3,141	28,186
Lacombe	3,452	2,975	985	154	455	259	302	231	757	1,679	1,865	1,198	14,312
Trochu	2,586	2,271	1,053	105	266	264	872	896	942	1,585	2,301	2,323	15,454
Three Hills	3,363	3,186	1,132	390	1,248	2,190	2,579	2,309	1,806	2,255	2,662	1,592	24,693
Carbon	540	637	340	137	305	351	576	372	342	785	661	363	5,409
Battle River	2,144	2,257	821	17	54	65	103	35	107	1,143	2,386	2,423	11,555
Camrose	9,758	7,990	3,576	1,571	1,569	2,005	2,581	2,089	2,863	5,172	6,144	7,453	52,771
Forfield	13,772	7,485	4,065	2,243	2,415	2,706	3,719	5,500	4,851	6,499	6,535	5,005	64,795
Clover Bar	41,626	28,830	15,145	6,393	8,467	18,511	18,555	15,423	17,597	21,337	24,172	22,862	238,848
Edmonton	17,058	12,847	6,779	4,497	4,133	6,492	7,512	3,424	6,045	8,830	9,818	9,270	96,706
Namoo	2,879	2,786	1,159	764	841	977	1,184	1,298	1,261	1,943	1,531	2,299	18,929
Cardiff	43,037	30,722	12,435	8,897	14,178	18,437	12,992	14,318	22,261	25,781	16,878	28,244	248,180
Wabamun	2,514	1,878	1,426	494	611	1,303	1,159	1,368	1,664	1,670	2,593	2,051	18,731
Pembina	12,683	7,925	2,232	1,518	6,456	8,083	6,255	10,020	10,047	13,363	9,679	6,816	95,077
Peace River	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total	353,072	222,209	155,068	91,645	135,479	221,107	255,157	262,913	251,435	267,984	234,264	264,805	2,715,138

The following table shows the total sales of BITUMINOUS Coal in Districts during each month:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's Nest	122,783	107,535	125,403	136,883	131,353	136,297	139,894	123,881	125,069	114,219	97,974	114,837	1,482,928
Pass -----	22,865	22,504	22,353	25,024	21,527	23,243	24,141	21,591	22,543	23,336	19,926	10,223	259,276
Canmore -----	27,795	24,359	22,879	31,902	35,128	32,297	35,636	41,284	37,047	38,357	17,053	22,840	366,482
Brazeau -----	23,389	21,779	28,660	30,215	27,155	18,444	19,319	22,222	25,345	26,097	15,047	20,411	278,083
Jasper Park ---	15,279	10,869	12,735	14,248	14,268	15,193	15,856	17,647	18,816	20,558	8,648	16,002	180,649
Yellowhead Pass	18,307	17,013	18,069	16,436	15,863	18,033	22,805	26,405	23,765	26,900	20,131	21,606	245,133
Mountain Park													
Total -----	230,418	204,059	230,099	254,708	245,294	245,512	257,451	257,830	252,585	249,367	178,784	205,919	2,812,551

The following table shows the total sales of ANTHRACITE Coal during each month:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Banff -----	3,162	3,245	3,093	2,679	2,869	2,583	3,087	2,721	2,435	2,369	1,254	1,769	31,166

The following table shows the total sales of COAL, BRIQUETTES and COKE during each month:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Coal -----	586,652	429,513	388,260	349,032	383,642	469,202	515,695	523,464	506,455	519,620	414,302	472,493	5,558,855
Briquettes ---	8,801	7,827	9,615	10,670	9,888	6,596	8,900	9,326	7,628	7,273	6,463	6,670	99,657
Coke -----	2,670	2,312	2,934	3,375	3,410	3,131	3,330	3,502	3,094	2,846	1,213	794	32,661

## THE MINES BRANCH

The following table shows the amount of DOMESTIC Coal sold during each month for consumption in Alberta:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek	374	271	155	149	112	170	264	206	180	420	747	635	3,683
Lethbridge	25,874	18,808	21,270	19,113	13,709	17,206	18,880	18,953	17,929	19,508	18,574	20,745	230,589
Magrath	48	39	27	7			130	168	147	215	514	287	1,582
Milk River	553	523	379	230	332	365	437	392	618	923	1,045	633	6,398
Taber	3,041	2,762	2,155	960	1,021	1,370	1,437	1,616	1,405	2,167	2,286	3,167	23,387
Bow Island	573	558	390	375	448	330	356	362	566	1,264	1,074	510	6,806
Medicine Hat	345	188	141	59	27	80	282	477	931	1,337	914	590	5,871
Aldersyde	686	606	551	276	353	173	433	370	651	1,340	1,345	749	7,533
High River	53	65	50	24	38	25	20	7		102	99	48	560
Drumheller	24,965	3,921	8,077	2,273	9,603	13,790	16,712	17,873	13,768	13,528	16,131	17,703	158,344
Big Valley	4,195	2,823	2,392	738	1,927	2,228	2,885	2,120	2,405	3,507	4,038	3,726	32,984
Brooks	790	824	619	214	451	433	983	437	1,182	1,911	1,075	808	9,727
Hanna	2,721	2,818	1,896	477	1,251	1,393	1,565	838	2,033	4,975	5,078	3,141	28,186
Lacombe	3,027	2,487	985	154	455	259	302	231	757	1,679	1,865	1,198	13,399
Trochu	2,586	2,271	1,053	105	266	264	769	803	878	1,522	2,224	2,147	14,888
Three Hills	2,331	2,256	1,132	390	832	1,165	870	1,108	1,338	1,586	1,985	1,345	16,339
Carbon	540	637	340	137	305	351	576	372	342	785	661	363	5,409
Battle River	2,144	2,257	821	17	54	65	103	35	107	1,143	2,386	2,423	11,555
Camrose	7,369	5,502	2,114	903	998	783	1,545	1,165	1,585	3,557	4,850	4,000	34,311
Tofield	9,997	5,722	3,975	2,243	2,198	2,436	2,318	4,540	3,834	4,607	4,846	3,622	50,398
Glover Bar	32,285	20,733	13,185	5,762	6,478	11,764	11,232	11,086	14,125	18,355	20,719	20,773	186,492
Edmonton	13,735	10,331	6,218	4,435	3,948	5,016	5,764	2,628	5,211	7,673	8,983	8,512	82,454
Namoo	1,528	1,765	899	668	506	543	592	825	722	1,567	1,330	1,964	12,909
Cardiff	33,392	23,477	11,695	8,632	12,857	15,747	10,393	11,263	18,239	22,214	15,930	25,963	209,802
Wabamun	522	618	1,298	324	395	847	582	762	708	899	1,328	961	9,244
Pembina	6,906	3,550	1,777	1,238	3,780	4,052	3,031	3,736	2,949	6,226	3,421	2,478	43,144
Peace River													
Total	180,520	115,812	83,594	49,903	62,344	80,856	82,429	82,373	92,639	123,010	123,448	128,491	1,205,419

The following table shows the amount of DOMESTIC Coal sold during each month for consumption in British Columbia:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek	1,781	1,385	881	567	550	391	837	1,150	1,223	2,325	1,388	2,292	14,770
Lethbridge													
Magrath													
Milk River	397	133	92			167	87	264	505	482	291	775	3,193
Taber													
Bow Island													
Medicine Hat													
Aldersyde													
High River					81	160	185	489	551	401	405	1,180	3,825
Drumheller	338	35											
Big Valley													
Brooks													
Hanna													
Lacombe													
Trochu							40			30			70
Three Hills													
Carbon													
Battle River						27							27
Camrose													
Toffield									33	39	70	68	210
Clover Bar													
Edmonton													
Namoo						34	35	96	328	34	74		631
Cardiff	30								32				32
Wabamun						96	62	163	798	1,078	517	551	4,091
Pembina	227	104			495								
Peace River													
Total	2,773	1,657	973	567	1,126	875	1,246	2,162	3,470	4,389	2,745	4,866	26,849

The following table shows the amount of DOMESTIC Coal sold during each month for consumption in Saskatchewan:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek	40,929	38,183	33,312	29,183	25,797	27,395	31,669	37,312	32,743	37,403	24,741	38,679	31
Lethbridge													397,346
Magrath													
Milk River	11,663	6,547	1,524	607	2,703	5,957	9,334	11,106	11,426	10,654	5,979	8,173	85,673
Bow Island													
Medicine Hat	980	340	180	112	183	382	710	1,224	1,318	2,022	717	1,479	9,667
Aldersyde													
High River													
Drumheller	46,356	5,435	16,341	3,566	15,832	38,236	68,063	74,430	60,350	42,171	36,466	40,775	448,071
Big Valley													
Brooks													
Hanna													
Lacombe	395	394											739
Trochu							93	93	64	63	44	143	500
Three Hills	344	266			184	483	1,540	1,125	468	527	485	247	5,669
Carbon													
Battle River													
Camrose	2,356	2,423	1,462	638	571	1,135	1,036	844	1,278	1,615	1,294	3,423	18,165
Tofield	2,745	1,304	90		62	120	1,124	830	761	1,441	1,336	1,016	10,829
Clover Bar	7,000	4,614	1,174	65	823	5,107	5,727	3,631	2,739	2,228	2,231	1,466	36,805
Edmonton	3,110	2,376	5,621	62	135	1,389	1,370	672	765	987	501	622	12,600
Namoo	801	552	165	96	335	434	560	380	513	376	201	302	4,715
Cardiff	7,035	4,410	620	265	1,064	2,207	2,210	1,899	3,084	3,330	842	1,581	28,592
Wabamun	1,894	849	96		136	209	369	482	465	403	203	875	6,031
Pembina	3,384	2,232	345	61		1,362	2,600	4,385	4,010	2,163	2,798	2,721	26,061
Peace River													
Total	129,022	69,925	55,870	34,655	47,925	84,557	126,405	138,433	119,984	105,383	77,838	101,502	1,091,544

The following table shows the amount of DOMESTIC Coal sold during each month for consumption in Manitoba:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek	---	90	60	---	30	---	---	---	---	---	---	---	180
Lethbridge	8,298	12,338	9,754	5,129	9,395	9,028	7,814	6,622	6,215	6,882	4,275	4,357	90,107
Magrath	---	---	---	---	---	---	---	---	---	---	---	---	---
Milk River	---	---	---	---	---	---	---	---	---	---	---	---	---
Taber	4,026	8,796	1,009	140	447	2,636	3,089	2,757	1,731	3,245	1,457	1,837	31,170
Bow Island	---	---	---	---	---	---	---	---	---	---	---	---	---
Medicine Hat	740	305	40	---	---	30	40	40	122	188	132	40	1,677
Aldersyde	---	---	---	---	---	---	---	---	---	---	---	---	---
High River	---	---	---	---	---	---	---	---	---	---	---	---	---
Drumheller	17,047	1,744	2,585	266	10,191	37,240	30,143	26,292	22,660	18,570	17,398	20,025	204,161
Big Valley	290	689	---	---	---	103	63	---	---	---	---	---	1,145
Brooks	---	---	---	---	---	---	---	---	---	---	---	---	---
Hanna	---	---	---	---	---	---	---	---	---	---	---	---	---
Lacombe	30	94	---	---	---	---	---	---	---	---	---	---	124
Trochu	---	---	---	---	---	---	---	---	---	---	---	---	66
Three Hills	688	664	---	---	232	541	129	76	---	92	33	33	2,615
Carbon	---	---	---	---	---	---	---	---	---	---	---	---	---
Battle River	---	---	---	---	---	---	---	---	---	---	---	---	---
Camrose	63	65	---	30	---	---	---	80	---	---	---	30	268
Tofield	1,030	459	---	---	155	150	277	130	256	451	353	367	3,628
Clover Bar	2,341	3,483	786	566	1,166	1,640	1,596	706	630	715	1,152	555	15,336
Edmonton	213	108	---	---	---	87	379	124	69	170	334	136	1,620
Namoo	550	469	95	---	---	---	32	93	33	---	---	33	1,305
Cardiff	2,580	2,790	120	---	257	449	354	1,060	610	203	32	700	9,155
Wabamun	98	411	32	170	30	247	208	93	459	368	1,062	215	3,424
Pembina	2,166	2,039	110	219	2,149	2,573	562	1,736	2,290	3,896	2,943	1,066	21,747
Peace River	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	40,160	34,544	14,591	6,520	24,052	54,724	44,686	39,840	35,075	34,780	29,364	29,394	387,728

## THE MINES BRANCH

The following table shows the amount of DOMESTIC Coal sold during each month for consumption in Ontario:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek	---	---	---	---	---	---	---	---	---	34	34	47	115
Lethbridge	---	---	---	---	---	---	---	---	---	---	---	---	---
Magrath	---	---	---	---	---	---	---	---	---	---	---	---	---
Milk River	---	---	---	---	---	---	---	---	47	---	44	---	91
Taber	---	---	---	---	---	---	---	---	---	---	---	---	---
Bow Island	---	---	---	---	---	---	---	---	---	---	---	---	---
Medicine Hat	---	---	---	---	---	---	---	---	---	---	---	---	---
Aldersyde	---	---	---	---	---	---	---	---	---	---	---	---	---
High River	---	---	---	---	---	65	61	---	---	---	46	---	172
Drumheller	---	---	---	---	---	---	---	---	---	---	---	---	---
Big Valley	---	---	---	---	---	---	---	---	---	---	---	---	---
Brooks	---	---	---	---	---	---	---	---	---	---	---	---	---
Hanna	---	---	---	---	---	---	---	---	---	---	---	---	---
Lacombe	---	---	---	---	---	---	---	---	---	---	---	---	---
Trochu	---	---	---	---	---	---	---	---	---	---	---	---	---
Three Hills	---	---	---	---	---	---	---	---	---	---	---	---	---
Carbon	---	---	---	---	---	---	---	---	---	---	---	---	---
Battle River	---	---	---	---	---	---	---	---	---	---	---	---	---
Camrose	---	---	---	---	---	---	---	---	---	---	---	---	---
Tofield	---	---	---	---	---	---	---	---	---	---	---	---	---
Clover Bar	---	---	---	---	---	---	---	---	---	---	---	---	---
Edmonton	---	32	---	---	---	---	---	---	---	---	---	---	32
Namoo	---	---	---	---	---	---	---	---	---	---	---	---	---
Cardiff	---	---	---	---	---	---	---	---	---	---	---	---	---
Wabamun	---	---	---	---	---	---	---	---	---	---	---	---	---
Pembina	---	---	---	---	34	---	---	---	---	---	---	---	34
Peace River	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	---	32	---	---	34	65	61	---	47	34	124	47	444



The following table shows the amount of DOMESTIC Coal sold during each month for consumption in the United States:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek							55						55
Lethbridge	157	34											191
Magrath													
Milk River									5	21		37	63
Taber										211	453	146	810
Bow Island													
Medicine Hat	440	160	40			30	275	105	121	156	117	80	1,524
Aldersyde													
High River													
Drumheller									94		175	242	511
Big Valley													
Brooks													
Hanna													
Lacombe													
Trochu													
Three Hills													
Carbon													
Battle River													
Camrose													
Tofield													
Clover Bar													
Edmonton													
Namoo													
Cardiff													
Wabamun													
Pembina													
Peace River													
Total	597	194	40			30	330	105	220	388	745	505	3,154

The following table shows the amount of BITUMINOUS Coal sold during each month for consumption in Alberta:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's Nest	88,411	86,534	102,970	111,235	100,386	100,101	95,190	87,103	94,626	90,288	68,159	94,255	1,119,358
Pass -----	20,997	21,704	21,215	24,055	20,003	21,525	22,880	20,108	20,739	21,762	18,339	9,256	242,583
Canmore -----	27,795	24,339	22,879	31,331	34,144	31,552	34,744	40,279	36,189	37,151	16,714	22,711	359,878
Brazeau -----	23,339	21,779	28,660	30,215	27,155	18,384	19,319	22,222	18,184	19,379	15,047	20,411	264,144
Jasper Park -----	9,234	7,756	10,952	10,830	11,001	10,121	7,569	9,733	10,625	9,364	2,652	9,328	109,205
Yellowhead Pass	13,009	12,337	12,416	10,447	9,977	9,872	10,246	8,927	7,348	11,845	8,272	9,930	124,626
Mountain Park													
Total -----	182,885	174,519	199,092	218,203	202,666	191,555	189,948	188,372	187,691	189,789	129,183	165,891	2,219,794

The following table shows the amount of BITUMINOUS Coal sold during each month for consumption in British Columbia:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's Nest	13,563	5,602	6,307	4,488	3,729	3,434	3,173	4,023	4,476	3,409	2,258	2,299	56,761
Pass -----	313	525	474	401	1,524	---	34	33	628	906	902	801	6,541
Canmore -----	---	---	---	---	---	---	---	---	---	---	---	---	---
Brazeau -----	---	---	---	---	---	---	---	---	---	---	---	---	---
Jasper Park	103	---	93	355	262	253	273	352	718	562	524	753	4,248
Yellowhead Pass	1	---	---	---	4	---	95	561	749	61	102	40	1,613
Mountain Park													
Total -----	13,980	6,127	6,874	5,244	5,519	3,687	3,575	4,969	6,571	4,938	3,786	3,893	69,163

The following table shows the amount of BITUMINOUS Coal sold during each month for consumption in Saskatchewan:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's Nest	12,445	9,606	8,070	7,592	10,478	10,167	13,496	13,984	7,981	5,961	4,985	9,905	114,670
Pass -----	1,555	275	664	568	---	673	1,022	1,350	972	560	685	166	9,490
Canmore -----	---	---	---	448	767	498	730	763	302	602	208	129	4,447
Brazeau -----	---	---	---	---	---	---	---	---	---	---	---	---	---
Jasper Park -----	---	---	---	---	---	---	---	---	---	---	---	---	---
Yellowhead Pass	3,137	2,338	1,380	2,954	1,558	2,251	4,828	4,868	5,636	9,066	5,047	5,921	48,984
Mountain Park	4,670	3,841	4,079	5,695	4,747	5,360	9,095	14,182	13,195	12,861	8,960	8,919	95,604
Total -----	21,807	16,060	14,193	17,257	17,550	19,949	29,171	35,147	28,086	29,050	19,885	25,040	273,195

The following table shows the amount of BITUMINOUS Coal sold during each month for consumption in Manitoba:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's Nest	1,822	987	458	2,247	7,076	9,302	11,752	11,098	2,276	2,867	11,565	607	62,057
Pass -----	---	---	---	---	---	45	205	100	204	108	---	---	662
Canmore -----	---	---	---	---	---	247	162	242	576	504	136	---	2,157
Brazeau -----	---	---	---	73	217	60	---	---	7,161	6,718	---	---	13,939
Jasper Park -----	---	---	---	---	---	---	---	---	1,837	1,566	425	525	18,027
Yellowhead Pass	2,570	775	310	119	1,447	2,573	3,186	2,694	2,473	2,133	2,797	2,717	23,290
Mountain Park	627	835	1,574	294	1,135	2,801	3,169	2,735	---	---	---	---	---
Total -----	5,019	2,597	2,342	2,733	9,875	15,028	18,474	16,869	14,527	13,896	14,923	3,849	120,132

The following table shows the amount of BITUMINOUS Coal sold during each month for consumption in Ontario :

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's Nest													
Pass													
Canmore													
Brazeau													
Jasper Park													
Yellowhead Pass	185												185
Mountain Park													
Total	185												185

The following table shows the amount of BITUMINOUS Coal sold during each month for consumption in United States :

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's Nest													
Pass	6,542	4,756	7,598	11,271	9,684	15,293	16,283	12,473	15,710	11,694	11,007	7,771	130,082
Canmore													
Brazeau													
Jasper Park													
Yellowhead Pass													
Mountain Park													
Total	6,542	4,756	7,598	11,271	9,684	15,293	16,283	12,473	15,710	11,694	11,007	7,771	130,082

The following table shows the amount of Anthracite Coal, Briquettes and Coke respectively sold during each month for consumption in Alberta:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Anthracite ----	1,892	1,897	2,202	835	786	864	1,211	1,174	1,302	1,155	638	985	14,941
Briquettes ----	6,982	5,760	9,117	8,398	8,414	4,750	5,983	4,564	4,080	4,818	4,409	4,244	71,519
Coke -----	1	30	-----	-----	33	3	-----	-----	-----	110	55	-----	232

The following table shows the amount of Anthracite Coal, Briquettes and Coke respectively sold during each month for consumption in British Columbia:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Anthracite ----	396	403	207	862	263	356	599	448	409	482	326	426	5,177
Briquettes ----	379	274	61	1,438	172	119	223	505	485	231	115	366	4,368
Coke -----	2,669	2,240	2,934	3,345	3,266	3,112	3,190	3,358	2,995	2,257	1,095	764	31,225

The following table shows the amount of Anthracite Coal, Briquettes and Coke respectively sold during each month for consumption in Saskatchewan:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Anthracite ----	763	841	257	566	1,156	914	690	705	637	632	257	282	7,700
Briquettes ----	1,221	1,615	397	760	886	889	887	2,610	2,822	1,593	1,269	1,111	16,060
Coke -----	-----	-----	-----	-----	78	33	33	-----	-----	88	-----	-----	232

The following table shows the amount of Anthracite Coal, Briquettes and Coke respectively sold during each month for consumption in Manitoba:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Anthracite	111	104	387	416	664	449	587	394	87	---	33	76	3,308
Briquettes	219	178	40	74	416	838	1,807	1,647	241	631	670	949	7,710
Coke	---	---	---	---	33	33	107	144	99	391	33	30	870

The following table shows the amount of Anthracite Coal, Briquettes and Coke respectively sold during each month for consumption in Ontario:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Anthracite	---	---	---	---	---	---	---	---	---	---	---	---	---
Briquettes	---	---	---	---	---	---	---	---	---	---	---	---	---
Coke	---	---	---	---	---	---	---	---	---	---	---	---	---

The following table shows the amount of Anthracite Coal, Briquettes and Coke respectively sold during each month for consumption in United States:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Anthracite	---	---	40	---	---	---	---	---	---	---	---	---	40
Briquettes	---	---	---	---	---	---	---	---	---	---	---	---	---
Coke	---	42	---	30	---	---	---	---	---	---	30	---	102

The following table shows the amount of DOMESTIC Coal used during each month under Colliery Boilers:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek	6,290	6,029	5,712	6,888	6,392	6,278	6,267	6,735	6,236	6,989	6,524	6,936	77,276
Lethbridge													
Magrath													
Milk River	2,390	2,245	1,045	895	1,153	1,428	1,865	1,961	1,907	2,040	1,886	1,722	20,337
Taber													
Bow Island													
Medicine Hat													
Aldersyde													
High River													
Drumheller	4,627	1,841	1,935	1,405	2,863	3,670	4,380	4,449	4,274	3,859	4,407	4,063	41,773
Big Valley	50	50	50	30	50	50	50	50	50	50	50	50	580
Brooks													
Hanna	54	51	50	37	41	40	49	48	48	60	59	51	588
Lacombe													
Trochu	35	35	15	3	45	68	108	110	97	53	42	105	113
Three Hills	185	135	85	45	206	181	196	189	154	161	180	131	624
Carbon													
Battle River													
Camrose	124	111	70	75	75	72	68	75	65	171	159	180	1,245
Toffield	61	53	46	33	31	76	150	150	150	151	50	70	1,021
Clover Bar	1,611	1,401	1,240	1,248	1,372	1,430	1,665	1,608	1,428	1,601	1,648	1,411	17,663
Edmonton	777	830	792	690	705	673	702	733	822	1,086	1,155	1,045	10,010
Namoo	54	57	26	30	30	34	36	36	35	40	34	32	444
Cardiff	1,319	1,174	1,168	1,032	1,024	967	1,137	958	1,213	1,231	951	1,095	13,266
Wabamun	36	64	76	40	30	36	39	36	36	36	45	45	519
Pembina	1,035	701	593	379	405	358	307	372	342	812	674	835	6,813
Peace River													
Total	18,648	14,774	12,903	12,831	14,440	15,371	17,021	17,513	16,859	18,345	17,669	17,774	194,148

The following table shows the amount of BITUMINOUS Coal used during each month under Colliery Boilers :

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's Nest -	6,359	5,874	6,325	5,823	5,370	5,405	4,067	4,295	3,846	4,079	4,477	4,731	60,651
Pass -----	1,104	1,160	1,167	1,196	1,178	1,221	1,336	1,362	1,438	1,421	1,542	1,283	15,408
Canmore -----	549	544	509	542	468	482	443	470	455	507	480	542	5,991
Brazeau -----	503	418	398	390	431	454	246	54	555	596	624	590	5,259
Jasper Park ---	1,001	1,034	1,025	1,015	1,004	935	1,038	1,108	1,105	1,153	876	935	12,229
Yellowhead Pass	816	749	817	825	805	803	903	864	905	880	843	915	10,130
Mountain Park													
Total -----	10,332	9,779	10,241	9,791	9,256	9,305	8,033	8,153	8,304	8,636	8,842	8,996	109,668

The following table shows the amount of ANTHRACITE Coal used during each month under Colliery Boilers :

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Banff -----	2,770	2,571	2,998	2,751	2,196	2,141	2,091	2,294	2,340	2,244	2,042	2,399	28,837



## OUTPUT AND NUMBER OF MINES PRODUCING.

	Under 10,000 Tons		From 10,000 to 50,000 Tons		From 50,000 to 100,000 Tons		From 100,000 to 200,000 Tons		From 200,000 to 300,000 Tons		From 300,000 to 400,000 Tons		From 400,000 to 500,000 Tons		Total	
	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output
Domestic	243	223,233	29	667,357	13	928,192	5	559,480	1	293,659	1	363,140	---	---	292	3,035,061
Bituminous	6	3,560	5	139,235	3	208,731	3	444,001	4	1,063,654	2	688,240	1	434,863	24	2,982,334
Anthracite	1	---	---	---	---	---	1	131,225	---	---	---	---	---	---	1	131,225
Total	250	226,793	34	806,592	16	1,136,973	9	1,134,706	5	1,357,313	3	1,051,380	1	434,863	317	6,148,620

In addition to the mines shown in above table as being in operation, two copper mines and two shale mines were operated during the year 1918.

The following table shows the classification of persons employed in the DOMESTIC, BITUMINOUS and ANTHRACITE Coal Fields, at December 31, 1918:

	UNDERGROUND					ABOVEGROUND					Total Under-ground and Above-ground			
	Super-vision	Miners and Helpers	Haulage and Employ-ees	Mechan's and Skilled Labour.	Others	Total	Super-vision	Mechan's and Skilled Labour	Clerical Assist-ance	Others		Coke Ovens	Briquette Plant	Total
Domestic	218	2,828	676	222	428	4,372	115	387	112	1,087	---	---	1,701	6,073
Bituminous	143	1,565	470	54	496	2,728	45	240	67	746	13	---	1,111	3,839
Anthracite	9	86	9	---	30	134	1	39	7	105	---	11	163	297
Total	370	4,479	1,155	276	954	7,234	161	666	186	1,938	13	11	2,975	10,209

The following table shows the classification of persons employed in the DOMESTIC Coal Field at December 31, 1918:

Districts	UNDERGROUND					ABOVE GROUND					Total Underground and Above Ground	
	Super- vision	Miners and Helpers	Haulage and Employ- ees	Mech's and Skilled Labour	Others	Total	Super- vision	Mech's and Skilled Labour	Clerical Assist- ance	Others		Total
Pincher Creek	3	20				23	1			2	3	26
Lethbridge	58	671	225	115	88	1,157	16	144	21	254	435	1,592
Magrath		3				3						3
Milk River	3	42			1	46	1			8	9	55
Taber	14	237	34	9	24	318	8	21		51	88	406
Bow Island	4	19				23				2	2	25
Medicine Hat	3	25	5	2	6	41	2		1	8	11	52
Aldersyde	3	19				22	1	1		1	3	25
High River		3				3					1	4
Drumheller	48	855	272	56	122	1,353	34	103	34	357	528	1,881
Big Valley	1	43			2	50	1	3	1	15	20	70
Brooks	2	30	1			33	1				1	34
Hanna	10	54			1	68	7	8	1	7	23	91
Lacombe	5	32	2			39	4	3	2	2	11	50
Trochu	6	36	1			43	3	7	2	19	31	74
Three Hills	3	32	4	1	3	43	2	2	1	6	11	54
Carbon	3	15				18	1				1	19
Battle River	2	38				40			1	2	3	43
Camrose	5	67	9		1	82	6	22	6	35	69	151
Tofield	1	4				5	2	1	3	50	56	61
Clover Bar	19	205	41	16	98	379	7	25	8	83	123	502
Edmonton	10	117	22	6	12	167	3	18	13	21	55	222
Namao	2	29	8		1	40	2	3		8	13	53
Cardiff	5	148	23	8	45	229	7	14	5	109	135	364
Wabamun	3	34	9	1	3	50	3	4	1	15	23	73
Pembina	5	50	13	8	21	97	3	8	4	31	46	143
Peace River												
Total	218	2,828	676	222	428	4,372	115	387	112	1,087	1,701	6,073



## THE MINES BRANCH

The following table shows the average number of persons employed during each month in the DOMESTIC Coal Field, above and below ground:

District.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Pincher Creek	14	13	14	8	8	7	12	13	11	19	22	26
Lethbridge	1,538	1,593	1,501	1,336	1,301	1,338	1,391	1,385	1,389	1,436	1,365	1,592
Magrath	5	3	3	1	---	---	3	3	4	4	4	3
Milk River	25	24	22	17	38	51	30	21	35	32	47	55
Taber	488	450	398	185	206	299	356	378	399	402	347	406
Bow Island	25	25	21	13	13	16	16	17	18	28	27	25
Medicine Hat	41	28	18	13	15	24	38	39	53	61	51	52
Aldersyde	21	20	18	11	12	18	19	16	17	26	35	25
High River	2	2	2	1	1	3	4	2	1	6	6	4
Drumheller	1,604	1,385	1,247	441	1,043	1,380	1,755	1,725	1,721	1,645	1,591	1,881
Big Valley	74	77	80	17	26	35	40	36	39	50	55	70
Brooks	18	16	15	10	10	10	11	13	21	28	25	34
Hanna	72	67	57	26	26	32	32	26	34	84	87	91
Lacombe	70	63	41	18	22	15	16	17	25	37	52	50
Trochu	49	47	32	16	21	14	30	27	41	52	59	74
Three Hills	77	78	63	28	36	48	55	54	49	50	59	54
Carbon	17	17	13	11	14	16	12	15	16	20	24	19
Battle River	39	34	25	1	4	8	4	3	8	31	42	43
Camrose	125	116	68	48	44	44	52	65	90	102	120	151
Tofield	121	80	50	34	56	79	92	98	88	99	62	61
Clover Bar	532	470	308	213	230	315	425	432	424	429	479	502
Edmonton	287	259	178	131	128	187	208	189	209	235	260	222
Namoo	53	56	36	19	19	20	33	41	38	46	52	53
Cardiff	377	359	257	209	188	204	216	225	267	276	268	364
Wabamun	54	54	36	19	21	19	27	30	32	52	60	73
Pembina	155	136	84	69	94	122	132	131	146	144	141	143
Peace River	---	---	---	---	---	---	---	---	---	---	---	---
Total	5,883	5,472	4,587	2,895	3,576	4,304	4,629	5,001	4,795	5,394	5,340	6,073

The following table shows the average number of persons employed during each month in the BITUMINOUS Coal Field, above and below ground:

District.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Crow's Nest Pass	1,859	1,840	1,820	1,950	1,844	1,858	1,803	1,812	1,741	1,759	1,485	1,721
Canmore	298	305	295	299	286	300	287	334	339	324	341	335
Brazeau	460	481	480	435	317	406	432	465	475	455	267	486
Jasper Park	482	505	520	445	507	442	441	476	518	528	468	511
Yellowhead Pass	298	282	266	268	253	286	283	284	347	443	315	452
Mountain Park	316	312	320	310	267	247	265	274	272	310	316	334
Total	3,713	3,725	3,701	3,707	3,474	3,539	3,511	3,645	3,692	3,819	3,192	3,839

The following table shows the average number of persons employed during each month in the ANTHRACITE Coal Field, above and below ground:

District.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Banff	293	291	285	276	284	266	279	289	290	295	285	297

The following table shows the average number of persons employed during each month in the DOMESTIC, BITUMINOUS and ANTHRACITE Coal Fields, above and below ground:

District.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Domestic	5,883	5,472	4,587	2,895	3,576	4,304	4,629	5,001	4,795	5,394	5,340	6,073
Bituminous	3,713	3,725	3,701	3,707	3,474	3,539	3,511	3,645	3,692	3,819	3,192	3,839
Anthracite	293	291	285	276	284	266	279	289	290	295	285	297
Total	9,889	9,488	8,573	6,878	7,334	8,109	8,419	8,935	8,777	9,508	8,817	10,209

## PER CAPITA PRODUCTION OF MINES IN THE PROVINCE.

Year	Gross Tons of Coal Mined	Total No. of Men Employed	Tons of Coal Mined Per Man	No. of Men Employed Underground	Tons of Coal Mined per Man Employed Underground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
*1909	2,174,329	5,207	417	3,893	566
1910	3,036,757	5,818	504	4,090	742
**1911	1,694,564	6,689	253	4,517	375
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631
1915	3,434,891	6,445	532	4,493	764
1916	4,648,604	7,570	614	5,536	839
***1917	4,863,414	8,310	595	6,047	804
1918	6,148,620	8,818	697	6,141	1,001

\*During the year 1909 a strike affecting all the larger mines in the Province lasted for a period of three months.

\*\*During the year 1911 a strike affecting all the larger mines in the Province lasted for a period of eight months.

\*\*\*During the year 1917 a strike affecting all the larger mines in the Province lasted for a period of three months.

## PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD.

Year	Gross Tons of Coal Mined	No. of Men Employed Underground	Total No. of Men Employed	Tons of Coal Mined per Man Employed Underground	Tons of Coal Mined per Man Employed
1910	878,011	1,676	2,307	524	380
1911	964,700	2,488	3,548	391	271
1912	1,341,389	2,283	2,980	587	450
1913	1,763,225	2,929	4,017	601	438
1914	1,697,401	3,190	4,219	532	402
1915	1,682,922	2,210	3,181	761	529
1916	2,172,801	3,137	4,132	692	525
1917	2,537,829	3,489	4,701	727	539
1918	3,035,061	3,420	4,896	887	619

## PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS COAL FIELD.

Year	Gross Tons of Coal Mined	No. of Men Employed Underground	Total No. of Men Employed	Tons of Coal Mined per Man Employed Underground	Tons of Coal Mined per Man Employed
1910	1,896,961	2,076	2,981	914	636
1911	649,745	1,820	2,641	357	246
1912	1,926,371	2,353	3,243	818	594
1913	2,374,401	2,645	3,562	897	666
1914	1,953,367	2,632	3,529	742	553
1915	1,626,237	2,103	2,921	773	557
1916	2,335,259	2,258	3,142	1,034	743
1917	2,206,868	2,429	3,335	909	661
1918	2,982,334	2,597	3,636	1,109	820

## PER CAPITA PRODUCTION OF MINES IN THE ANTHRACITE COAL FIELD.

Year	Gross Tons of Coal Mined	No. of Men Employed Underground	Total No. of Men Employed	Tons of Coal Mined per Man Employed Underground	Tons of Coal Mined Per Man Employed
1910	261,785	338	530	774	493
1911	80,119	209	500	383	160
1912	178,589	225	438	793	407
1913	168,720	263	489	641	345
1914	170,971	230	422	743	405
1915	125,732	180	343	698	366
1916	140,544	141	296	996	474
1917	118,717	129	284	920	418
1918	131,225	124	286	1,058	458

The tables showing the number of men employed in the Bituminous Coal Field include employees at the Coke Ovens, and in the Anthracite Coal Field employees at the Briqueting Plant.

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD  
BY DISTRICTS.

Districts	Gross Tons of Coal Mined	No. of Men Employed Undergr'nd	Total No. of Men Employed	Tons of Coal Mined Per Man Employed Undergr'nd	Tons of Coal Mined Per Man Employed
Pincher Creek -----	3,955	12	14	329	282
Lethbridge -----	857,092	1,001	1,429	856	599
Magrath -----	1,627	3	3	542	542
Milk River -----	6,848	27	33	978	207
Taber -----	183,485	272	359	674	511
Bow Island -----	7,283	19	20	383	364
Medicine Hat -----	19,028	27	36	704	528
Aldersyde -----	8,069	18	19	448	424
High River -----	570	2	3	285	190
Drumheller -----	881,081	1,009	1,451	873	607
Big Valley -----	34,718	36	49	964	708
Brooks -----	9,783	16	18	611	543
Hanna -----	29,533	37	53	798	557
Lacombe -----	15,201	30	35	506	434
Trochu -----	18,248	25	39	729	467
Three Hills -----	30,150	43	54	701	558
Carbon -----	5,431	15	16	362	339
Battle River -----	12,203	19	20	642	610
Camrose -----	56,597	49	85	1,155	665
Tofield -----	66,054	3	76	22,018	869
Clover Bar -----	264,868	298	396	888	668
Edmonton -----	106,756	159	208	671	513
Namoo -----	21,660	29	39	746	555
Cardiff -----	266,142	166	277	1,602	599
Wabamun -----	19,250	25	39	770	493
Pembina -----	109,429	80	125	1,367	875
Peace River -----					
Total -----	3,035,061	3,420	4,896	887	619

PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS COAL FIELD  
BY DISTRICTS.

Districts	Gross Tons of Coal Mined	No. of Men Employed Undergr'nd	Total No. of Men Employed	Tons of Coal Mined Per Man Employed Undergr'nd	Tons of Coal Mined Per Man Employed
Crow's Nest Pass --	1,601,486	1,305	1,799	1,226	376
Canmore -----	274,709	202	312	1,359	874
Brazeau -----	371,562	320	429	1,161	866
Jasper Park -----	283,342	395	487	717	581
Yellowhead Pass ---	195,972	182	314	1,076	624
Mountain Park ----	255,263	193	295	1,322	865
Total -----	2,982,334	2,597	3,636	1,109	820

PER CAPITA PRODUCTION OF MINES IN THE ANTHRACITE COAL FIELD  
BY DISTRICTS.

District	Gross Tons of Coal Mined	No. of Men Employed Undergr'nd	Total No. of Men Employed	Tons of Coal Mined Per Man Employed Undergr'nd	Tons of Coal Mined Per Man Employed
Banff -----	131,225	124	286	1,058	458



The following table shows the number of days in each month on which DOMESTIC Coal was drawn:

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Pincher Creek	22	22	15	11	10	18	18	13	10	17	19	12	187
Lethbridge	21	19	19	19	21	20	20	22	23	23	20	21	248
Magrath	16	23	20	25	---	---	17	22	22	27	24	18	214
Milk River	17	18	18	12	19	17	17	15	19	17	18	18	205
Taber	19	18	11	14	17	16	21	21	20	22	20	19	197
Bow Island	14	13	12	16	20	14	19	13	16	23	20	17	197
Medicine Hat	19	13	11	4	4	9	21	18	22	23	20	19	183
Aldersyde	22	18	21	20	20	19	24	19	20	24	23	17	247
High River	16	18	22	11	13	9	10	---	19	15	18	17	168
Drumheller	15	7	9	13	19	22	23	23	21	19	19	15	228
Big Valley	25	22	17	10	25	16	18	13	17	25	25	18	231
Brooks	20	16	15	19	19	22	19	23	19	18	21	14	225
Hanna	29	20	16	15	17	19	19	17	20	24	21	21	238
Lacombe	20	17	12	15	15	16	15	10	19	22	20	17	198
Trochu	21	22	17	4	13	14	16	21	17	19	19	14	197
Three Hills	24	21	12	8	18	18	17	17	21	19	19	15	209
Carbon	20	21	20	17	15	17	21	19	15	24	20	20	229
Battle River	21	21	16	6	8	13	13	11	16	16	22	15	178
Camrose	23	22	15	19	20	20	19	23	18	20	20	17	236
Tofield	24	21	21	19	22	16	20	22	23	26	22	23	259
Clover Bar	26	22	18	15	19	23	23	19	18	22	20	18	243
Edmonton	21	19	14	24	24	24	22	13	17	19	21	21	239
Namoo	19	21	22	24	21	22	22	19	15	20	18	18	237
Cardiff	26	20	14	13	20	21	19	17	22	20	20	22	234
Wabamun	22	21	14	10	12	20	25	22	22	23	23	20	234
Pembina	26	19	9	7	18	23	15	24	21	26	25	17	230
Peace River	---	---	---	---	---	---	---	---	---	---	---	---	---
Average No. of days worked	21	19	15.7	14	17.1	17.9	18.9	16.5	18.9	21.2	20.6	17.8	18.2

The following table shows the number of days in each month on which BITUMINOUS Coal was drawn :

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Crow's N. Pass	26	24	25	26	25	25	26	26	23	23	24	22	295
Canmore -----	27	21	25	18	14	17	26	24	24	26	25	21	268
Brazeau -----	23	19	21	23	24	24	19	25	24	26	22	21	271
Jasper Park -----	24	19	23	22	23	23	20	24	24	26	23	23	274
Yellowhead Pass	23	19	21	20	24	25	25	23	25	25	18	23	271
Mountain Park	25	23	24	24	25	24	26	27	23	25	22	22	290
Average No. of days worked	24.6	20.8	23.1	22.1	22.5	23.0	23.6	24.8	23.8	25.1	22.3	22.0	23.9

The following table shows the number of days in each month on which ANTHRACITE Coal was drawn :

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Banff -----	13	14	14	14	13	13	13	13	12	13	10	12	154

The following table shows the amount of mine timber used during the year:

## DOMESTIC COAL FIELD.

Districts	Round Timber Lineal Feet	Square Timber Square Feet B. M.	Slabs Cords	Cordwood No. of Cords
Pincher Creek -----	23,076			
Lethbridge -----	3,893,985	3,182,119	135	1,667
Magrath -----	8,000			
Milk River -----	24,939	933		
Taber -----	543,002	28,363		
Bow Island -----	15,818	300		
Medicine Hat -----	41,845			
Aldersyde -----	35,152	7,804		
High River -----	6,623			
Drumheller -----	1,551,465			
Big Valley -----	76,254			
Brooks -----	45,500	160		
Hanna -----	44,978			
Lacombe -----	53,388		60	
Trochu -----	54,984			
Three Hills -----	63,280			
Carbon -----	9,770			
Battle River -----	21,570			
Camrose -----	155,800			
Tofield -----	7,000			
Clover Bar -----	781,074			
Edmonton -----	422,240			
Namoo -----	118,506			
Cardiff -----	109,188			
Wabamun -----	64,600			
Pembina -----	387,622			
Peace River -----				
Total -----	8,559,659	3,229,679	195	1,667

## BITUMINOUS COAL FIELD.

Districts	Round Timber Lineal Feet	Square Timber Square Feet B. M.	Lagging	Cordwood No. of Cords
Crow's Nest Pass -----	2,655,993	1,040,049		
Canmore -----	192,076			
Brazeau -----	1,056,564			1,529
Jasper Park -----	580,400			
Yellowhead Pass -----	378,060		3,800	
Mountain Park -----	1,109,534		400,000	
Total -----	5,972,627	1,040,049	403,800	1,529

## ANTHRACITE COAL FIELD.

District	Round Timber Lineal Feet	Square Timber Square Feet B. M.	Slabs Cords	Cordwood No. of Cords
Banff -----	152,132			580

## EXPLOSIVES.

The following table shows the quantity of Explosives used in pounds for blasting coal in the DOMESTIC Coal Field:

Districts	NAME OF EXPLOSIVE						Total
	Monobel No. 1	Black Powder	Polar Permite	Dyna-mite	Stump-ing Powder	Viking No. 1	
Pincher Creek	185	450	1,162				1,797
Lethbridge	27,161	77,504		20,409		15,033	140,107
Magrath		740					740
Milk River		5,890		373			6,263
Taber	100	55,900		100			56,100
Bow Island		5,141					5,141
Medicine Hat		13,950		300			14,250
Aldersyde		2,535					2,535
High River	50						50
Drumheller	35,732	231,862					267,594
Big Valley		1,500					1,500
Brooks		6,730		3			6,733
Hanna		15,243					15,243
Lacombe		3,288					3,288
Trochu		8,025					8,025
Three Hills		14,558					14,558
Carbon		4,015					4,015
Battle River		20					20
Camrose	100	50					150
Tofield	1,875			1,050	700		3,625
Clover Bar	7,480	39,956			900		48,336
Edmonton	13,119	8,015	650				21,784
Namao	50	25					75
Cardiff	19,218	52,000					71,218
Wabamun	407						407
Pembina	17,021					50	17,071
Peace River							
Total	125,033	544,862	1,812	22,235	1,600	15,083	710,625

The following table shows the quantity of Explosives used in pounds for blasting coal in the BITUMINOUS Coal Field:

Districts	NAME OF EXPLOSIVE						Total
	Monobel No. 1	Polar Permite	Dyna-mite	Viking No. 1	Dynobel No. 2		
Crow's N. Pass	65,676	16,117			101,839		183,632
Canmore	10,920			45,500			56,420
Brazeau	4,500						4,500
Jasper Park	16,645	230		4,300			21,175
Yellowhead Pass	48,399	531		4,100	3,352		56,382
Mountain Park	26,402	650					27,052
Total	172,542	17,528		53,900	105,191		349,161

The following table shows the quantity of Explosives used in pounds for blasting coal in the Anthracite Coal Field:

District	NAME OF EXPLOSIVE						Total
	Monobel No. 1						
Banff	29,850						29,850

The following table shows the number of tons of DOMESTIC coal produced per pound of explosive used for blasting coal:

Districts	No. of Tons Mined	No. of Lbs. of Explosives Used	Tons of Coal Mined Per Lb. of Explosive Used
Pincher Creek -----	3,955	1,797	2.2
Lethbridge -----	857,092	140,107	6.0
Magrath -----	1,627	740	2.2
Milk River -----	6,848	6,263	1.1
Taber -----	183,485	56,100	3.3
Bow Island -----	7,283	5,141	1.4
Medicine Hat -----	19,028	14,250	1.3
Aldersyde -----	8,069	2,535	3.1
High River -----	570	50	11.4
Drumheller -----	881,081	267,594	3.2
Big Valley -----	34,718	1,500	23.1
Brooks -----	9,783	6,733	1.5
Hanna -----	29,533	15,243	1.9
Lacombe -----	15,201	3,288	4.6
Trochu -----	18,248	8,025	2.2
Three Hills -----	30,150	14,558	2.0
Carbon -----	5,431	4,015	1.3
Battle River -----	12,203	20	610.1
Camrose -----	56,597	150	377.3
Tofield -----	66,054	3,625	15.4
Clover Bar -----	234,333	48,336	5.5
Edmonton -----	106,756	21,784	4.9
Namoo -----	21,660	75	288.8
Cardiff -----	266,142	71,218	3.7
Wabamun -----	19,250	407	47.3
Pembina -----	109,429	17,071	6.4
Peace River -----			
Total -----	3,035,061	710,625	4.3

The following table shows the number of tons of BITUMINOUS coal produced per pound of explosive used for blasting coal:

Districts	No. of Tons Mined	No. of Lbs. of Explosives Used	Tons of Coal Mined Per Lb. of Explosive Used
Crow's Nest Pass -----	1,601,486	183,632	8.7
Canmore -----	274,709	56,420	4.8
Brazeau -----	371,562	4,500	82.5
Jasper Park -----	283,342	21,175	13.4
Yellowhead Pass -----	195,972	56,382	3.4
Mountain Park -----	255,263	27,052	9.4
Total -----	2,982,334	349,161	8.5

The following table shows the number of tons of ANTHRACITE coal produced per pound of explosive used for blasting coal:

District	No. of Tons Mined	No. of Lbs. of Explosives Used	Tons of Coal Mined Per Lb. of Explosive Used
Banff -----	131,225	29,850	4.4

Estimated number of shots fired for blasting coal in the DOMESTIC Coal Field:

Districts	Squibs	Fuse	Electric Detonator	Electric Squib	Total
Pincher Creek -----	560	5,854	-----	-----	6,414
Lethbridge -----	36,639	20,411	75,092	34,000	166,142
Magrath -----	1,270	-----	-----	-----	1,270
Milk River -----	7,431	961	-----	-----	8,392
Taber -----	55,000	670	-----	-----	55,670
Bow Island -----	6,240	-----	-----	-----	6,240
Medicine Hat -----	9,030	215	40	-----	9,285
Aldersyde -----	6,875	-----	-----	-----	6,875
High River -----	-----	43	-----	-----	43
Drumheller -----	7,180	44,448	45,451	-----	97,079
Big Valley -----	-----	206	-----	-----	206
Brooks -----	6,450	10	-----	-----	6,460
Hanna -----	-----	15,407	-----	-----	15,407
Lacombe -----	664	1,482	-----	-----	2,146
Trochu -----	6,085	5,259	-----	-----	11,344
Three Hills -----	1,190	3,987	-----	-----	5,177
Carbon -----	3,490	500	-----	-----	3,990
Battle River -----	-----	10	-----	-----	10
Camrose -----	-----	100	100	-----	200
Tofield -----	-----	2,720	-----	-----	2,720
Clover Bar -----	-----	24,997	10,741	-----	35,738
Edmonton -----	-----	4,831	25,542	-----	30,373
Namao -----	-----	190	-----	-----	190
Cardiff -----	-----	59,519	160	-----	59,679
Wabamun -----	-----	300	-----	-----	300
Pembina -----	-----	-----	15,396	-----	15,396
Peace River -----	-----	-----	-----	-----	-----
Total -----	148,104	192,120	172,522	34,000	546,746

Estimated number of shots fired for blasting coal in the BITUMINOUS Coal Field:

Districts	Squibs	Fuse	Electric Detonator		Total
Crow's Nest Pass -----	-----	-----	214,513	-----	214,513
Canmore -----	-----	440	55,000	-----	55,440
Brazeau -----	-----	6,760	2,012	-----	8,772
Jasper Park -----	-----	-----	32,505	-----	32,505
Yellowhead Pass -----	-----	1,100	35,357	-----	36,457
Mountain Park -----	-----	-----	42,533	-----	42,533
Total -----	-----	8,300	381,920	-----	390,220

Estimated number of shots fired for blasting coal in the ANTHRACITE Coal Field:

District			Electric Detonator		Total
Banff -----	-----	-----	30,547	-----	30,547

Number of Miss-Fire Shots recorded in blasting coal in the  
DOMESTIC Coal Field:

Districts	METHOD OF SHOT-FIRING				
	Squib	Fuse	Electric Detonator	Electric Squib	Total
Pincher Creek -----	3	3	-----	-----	6
Lethbridge -----	9	8	67	350	434
Magrath -----	2	-----	-----	-----	2
Milk River -----	93	-----	-----	-----	93
Taber -----	-----	2	-----	-----	2
Bow Island -----	1	-----	-----	-----	1
Medicine Hat -----	6	-----	-----	-----	6
Aldersyde -----	101	-----	-----	-----	101
High River -----	-----	2	-----	-----	2
Drumheller -----	-----	56	-----	-----	56
Big Valley -----	-----	-----	-----	-----	-----
Brooks -----	-----	-----	-----	-----	-----
Hanna -----	12	10	-----	-----	22
Lacombe -----	-----	-----	-----	-----	-----
Trochu -----	14	188	-----	-----	202
Three Hills -----	25	-----	-----	-----	25
Carbon -----	-----	-----	-----	-----	-----
Battle River -----	-----	-----	-----	-----	-----
Camrose -----	-----	-----	-----	-----	-----
Tofield -----	-----	-----	-----	-----	-----
Clover Bar -----	-----	12	-----	-----	12
Edmonton -----	-----	5	16	-----	21
Namoo -----	-----	-----	-----	-----	-----
Cardiff -----	-----	51	-----	-----	51
Wabamun -----	-----	3	-----	-----	3
Pembina -----	-----	-----	27	-----	27
Peace River -----	-----	-----	-----	-----	-----
Total -----	266	340	110	350	1,066

Number of Miss-Fire Shots recorded in blasting coal in the  
BITUMINOUS Coal Field:

Districts	METHOD OF SHOT-FIRING				
		Fuse	Electric Detonator		Total
Crow's Nest Pass --	-----	-----	222	-----	222
Canmore -----	-----	-----	46	-----	46
Brazeau -----	-----	14	4	-----	18
Jasper Park -----	-----	-----	3	-----	3
Yellowhead Pass --	-----	-----	11	-----	11
Mountain Park -----	-----	-----	36	-----	36
Total -----	-----	14	322	-----	336

Number of Miss-Fire Shots recorded in blasting coal in the  
ANTHRACITE Coal Field:

District	METHOD OF SHOT-FIRING				
			Electric Detonator		Total
Banff -----	-----	-----	22	-----	22

The following table shows the quantity of explosives used in pounds for blasting rock in Coal Mines in the Province:

Districts	NAME OF EXPLOSIVE					Total
	30% Dyna- mite	60% Dyna- mite	Black Powder	Monobel No. 1	Polar Permi- tite	
Crow's Nest Pass ---	101	-----	-----	-----	11,459	11,560
Pincher Creek ----	2	-----	-----	25	370	397
Lethbridge -----	1,379	-----	45	-----	-----	1,424
Magrath -----	-----	-----	-----	-----	-----	-----
Milk River -----	50	-----	-----	-----	-----	50
Taber -----	1,990	-----	525	25	60	2,600
Bow Island -----	52	-----	40	-----	-----	92
Medicine Hat -----	100	-----	-----	-----	-----	100
Aldersyde -----	20	-----	-----	145	-----	165
High River -----	344	-----	-----	15	-----	359
Canmore -----	-----	1,500	360	-----	10,000	11,860
Banff -----	-----	-----	-----	-----	26,650	26,650
Drumheller -----	-----	-----	-----	5,233	-----	5,233
Big Valley -----	-----	-----	-----	-----	-----	-----
Brazeau -----	-----	-----	-----	600	658	1,258
Brooks -----	3	-----	-----	-----	-----	3
Hanna -----	200	-----	30	-----	-----	230
Lacombe -----	-----	-----	-----	-----	-----	-----
Trochu -----	2,000	-----	-----	-----	-----	2,000
Three Hills -----	-----	-----	-----	-----	-----	-----
Carbon -----	-----	-----	2	-----	-----	2
Battle River -----	-----	-----	-----	-----	-----	-----
Camrose -----	-----	-----	-----	-----	-----	-----
Toffield -----	-----	-----	-----	-----	-----	-----
Clover Bar -----	-----	-----	-----	572	-----	572
Edmonton -----	-----	-----	-----	112	100	212
Namoo -----	-----	-----	-----	48	-----	48
Cardiff -----	-----	-----	-----	-----	-----	-----
Wabamun -----	-----	-----	-----	-----	-----	-----
Pembina -----	-----	-----	-----	-----	-----	-----
Jasper Park -----	590	-----	-----	-----	6,955	7,545
Yellowhead Pass -----	40	-----	-----	-----	3,300	3,340
Mountain Park -----	1,080	-----	-----	-----	235	1,315
Peace River -----	-----	-----	-----	-----	-----	-----
Total -----	7,951	1,500	1,002	6,775	59,787	77,015



Estimated number of Shots fired for blasting rock in Coal Mines in the Province:

Districts	Electric Detonator	Electric Squib	Fuse	Squib	Total
Crows Nest Pass	10,098		284		10,382
Pincher Creek				850	850
Lehighbridge	570		1,206	30	1,806
Magrath					
Milk River			40		40
Taber	45		2,655	470	3,170
Bow Island			141	65	206
Medicine Hat			430		430
Aldersyde			215		215
High River			765		765
Canmore	10,000		534		10,534
Banff	19,553				19,553
Drumheller	4,266				4,266
Big Valley					
Brazeau	922		1,575		2,497
Brooks			95		95
Hanna				30	30
Lacombe					
Trochu			700		700
Three Hills					
Carbon				5	5
Battle River					
Camrose					
Tofield					
Clover Bar	934		182		1,116
Edmonton	123		180		303
Namoo	60				60
Cardiff					
Wabamun			15		15
Pembina					
Jasper Park	6,690		5,295		11,985
Yellowhead Pass	2,990				2,990
Mountain Park	551		500		1,051
Peace River					
Total	56,802		14,812	1,450	73,064

The following table gives the number of Miss-Fire Shots recorded in blasting rock in Coal Mines in the Province:

Districts	Electric Detonator	Electric Squib	Fuse	Squib	Total
Crows Nest Pass	8				8
Pincher Creek					
Lethbridge					
Magrath					
Milk River			2		2
Taber	3		7		10
Bow Island					
Medicine Hat					
Aldersyde					
High River			6		6
Canmore	3		2		5
Banff	17				17
Drumheller	46				46
Big Valley					
Brazeau	6				6
Brooks			2		2
Hanna			1		1
Lacombe					
Trochu				40	40
Three Hills					
Carbon					
Battle River					
Camrose					
Tofield					
Clover Bar	5				5
Edmonton					
Namao					
Cardiff					
Wabamun					
Pembina					
Jasper Park					
Yellowhead Pass	2				2
Mountain Park					
Peace River					
Total	90		20	40	150

No statistics are available as to the cause of miss-fires.

## ELECTRICITY.

The Rules for the Installation and Use of Electricity in or about mines require a return to be made to the Department on or before January 21st of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground. According to the returns received from the different mines, electricity was used at 40 mines in 1918. A summary of these returns regarding the horse-power of electrical apparatus in use is given below:

District	No. of Mines Using Electricity	Horse-power of Electrical Apparatus in Use		Total Horse-Power
		Above Ground	Below Ground	
Crow's Nest Pass	6	2,958	365	3,323
Pincher Creek				
Lethbridge	5	938	340	1,278
Magrath				
Milk River				
Taber	3	115	343	458
Bow Island				
Medicine Hat	1	7		7
Aldersyde				
High River				
Canmore	1	315		315
Banff	1	150		150
Drumheller	7	500	250	750
Big Valley				
Brazeau	1	445		445
Brooks				
Hanna				
Lacombe				
Trochu				
Three Hills				
Carbon				
Battle River				
Camrose	1	12	3	15
Tofield				
Clover Bar	2	55	101	156
Edmonton	1	37	30	67
Namoo				
Cardiff	2		150	150
Wabamun	1	17½	1	18½
Pembina	1	118	301	419
Jasper Park	2	307		307
Yellowhead Pass	3	445	32½	477½
Mountain Park	2	115	55	170
Peace River				
Total	40	6,534½	1,971½	8,506

A closer estimate of the extent to which electricity is used in the different districts may be made by considering the number of tons of coal raised per electrical horse-power employed in all mines under The Mines Act. The following table will give this information:

## TONS OF COAL PER ELECTRICAL HORSE-POWER EMPLOYED.

District	Tons of Coal Mined in 1918	Above Ground	Below Ground	Total Above and Below Ground
Crow's Nest Pass -----	1,601,486	541	4,387	481
Pincher Creek -----	3,955			
Lethbridge -----	857,092	913	2,520	670
Magrath -----	1,627			
Milk River -----	6,848			
Taber -----	183,485	1,595	337	400
Bow Island -----	7,283			
Medicine Hat -----	19,028	2,718		2,718
Aldersyde -----	8,069			
High River -----	570			
Canmore -----	274,709	872		872
Banff -----	131,225	874		874
Drumheller -----	881,081	1,762	3,524	1,175
Big Valley -----	34,718			
Brazeau -----	371,562	834		834
Brooks -----	9,783			
Hanna -----	29,533			
Lacombe -----	15,201			
Trochu -----	18,248			
Three Hills -----	30,150			
Carbon -----	5,431			
Battle River -----	12,203			
Camrose -----	56,597	4,716	18,865	3,773
Tofield -----	66,054			
Clover Bar -----	264,868	4,814	2,622	1,697
Edmonton -----	106,756	2,885	3,557	1,593
Namoo -----	21,660			
Cardiff -----	266,142		1,774	1,774
Wabamun -----	19,250	1,100	19,250	1,040
Pembina -----	109,429	936	363	261
Jasper Park -----	283,342	923		923
Yellowhead Pass -----	195,972	440	60,029	410
Mountain Park -----	255,263	222	4,641	963
Peace River -----				

This table is useful to show by comparison with other years the growth or decline in the use of electricity in the Province as a whole and in each district taken separately.

The number of electrically driven coal-cutting machines in use at the end of the year was twenty-four.

No accidents were reported in connection with the use of electricity during the year.

## COAL-CUTTING MACHINERY.

District	No. of Coal-cutting Machines Operated by		Tons of Coal Mined by	
	Electricity	Compressed Air	Electricity	Compressed Air
Crow's Nest Pass				
Pincher Creek				
Lethbridge		103		629,947
Magrath				
Milk River				
Taber	1	37	14,960	135,408
Bow Island				
Medicine Hat	2	3		6,857
Aldersyde				
High River				
Canmore				
Banff				
Drumheller	8	24	214,899	317,750
Big Valley				
Brazeau				
Brooks				
Hanna				
Lacombe				
Trochu		2		5,214
Three Hills		4		24,984
Carbon				
Battle River				
Camrose				
Tofield				
Clover Bar	3	6	56,000	70,000
Edmonton		7		54,510
Namoo				
Cardiff	5		146,612	
Wabamun				
Pembina	5		108,909	
Jasper Park				
Yellowhead Pass		7		83,796
Mountain Park				
Peace River				
Total	24	193	541,380	1,328,466

The following tables are taken from reports issued by the Department of Mines, Ottawa. It will be noted, however, that the amount of coal stated in these tables as being produced each year differs slightly from the amount shown by the provincial reports. The particulars for the year 1918 have not yet been received.

## ANNUAL PRODUCTION OF COAL IN ALBERTA.

Calendar Year	Short Tons	Value	Average Per Ton
1887	74,152	\$ 157,577	\$2.13
1888	115,124	183,354	1.59
1889	97,364	179,640	1.85
1890	128,753	198,298	1.54
1891	174,131	437,243	2.51
1892	178,970	460,605	2.57
1893	230,070	586,260	2.55
1894	184,940	473,827	2.56
1895	169,885	382,526	2.25
1896	209,162	581,832	2.78
1897	242,163	630,408	2.60
1898	315,088	788,720	2.50
1899	309,600	774,000	2.50
1900	311,450	778,625	2.50
1901	340,275	850,687	2.50
1902	402,819	960,601	2.38
1903	495,893	1,117,541	2.25
1904	661,732	1,404,524	2.12
1905	931,917	1,993,915	2.14
1906	1,246,360	2,614,762	2.10
1907	1,591,579	3,826,286	2.41
1908	1,685,661	4,127,311	2.45
1909	1,994,741	4,838,109	2.43
1910	2,894,469	7,065,736	2.44
1911	1,511,036	3,979,264	2.63
1912	3,240,577	8,113,525	2.50
1913	4,014,755	10,418,941	2.59
1914	3,683,015	9,350,392	2.54
1915	3,360,818	8,283,079	2.46
1916	4,559,054	11,386,577	2.50
1917	4,736,368	14,153,685	2.99

## MINERAL PRODUCTION IN ALBERTA, 1916 AND 1917

Product	1916		1917	
	Quantity	Value	Quantity	Value
Gold (ozs.) -----	82	\$ 1,695	-----	\$ -----
Coal (tons) -----	4,559,054	11,386,577	4,736,368	14,153,685
Natural Gas (M. cu. ft)	6,904,231	1,113,296	6,744,130	1,299,976
Petroleum (bbls.) -----	-----	-----	8,500	63,302
Cement (bbls.) -----	275,727	477,832	259,423	567,969
Clay Products -----	-----	255,140	-----	309,991
Lime (bus.) -----	78,019	20,033	104,540	35,516
Sand-line Brick (No.)	697,500	5,571	1,547,590	15,703
Stone -----	-----	257	-----	7,482
*Other Products -----	-----	67,142	-----	73,911
Total Value -----	-----	\$13,297,543	-----	\$16,527,535

\*Includes in 1917 a small value in copper, zinc and silver in addition to sand and gravel.

## ACCIDENTS.

Summary table showing Accidents occurring in Mines during 1906 to 1918 inclusive:

Year	Output	Accidents			Tons of Coal Mined Per Accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	125,909	69,250
1907	1,834,745	19	18	18	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61*	41	58	49,782	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,656
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	152,789	71,772	51,883
1914	3,821,729	209**	44	50	18,286	86,857	76,434
1915	3,434,891	18	33	33	190,827	104,087	104,087
1916	4,648,604	20	51	34	232,430	91,149	136,723
1917	4,863,414	24	62	39	202,642	78,442	124,703
1918	6,148,620	22	60	77	279,483	102,477	79,860
Total	42,640,358	459	530	596	92,811	80,453	71,544

\*Including thirty-one deaths caused by the Bellevue explosion.

\*\*Including one hundred and eighty-nine deaths caused by the Hillcrest explosion.

Table showing Accidents during 1918 classified according to the coal field in which they occurred:

	Output	Accidents			Tons of Coal Mined Per Accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
Domestic ----	3,035,061	5	26	39	607,012	124,425	77,822
Bituminous ---	2,982,334	17	34	38	175,431	87,716	78,482
Anthracite --	131,225						

Classification of accidents according to outputs of mines which produced during the year 1918:

	Under 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 200,000 tons	From 200,000 to 300,000 tons	From 300,000 to 400,000 tons	From 400,000 to 500,000 tons	Total
Fatal -----	1	3	5	6	4	-----	3	22
Serious -----	2	11	11	9	14	8	5	60
Slight -----	3	19	17	11	17	7	3	77

Table showing accidents per ton of coal extracted from mines which produced during 1918:

	Under 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 200,000 tons	From 200,000 to 300,000 tons	From 300,000 to 400,000 tons	From 400,000 to 500,000 tons
Fatal -----	223,233	261,271	222,994	189,118	265,914	-----	144,954
Serious -----	111,616	71,256	101,361	126,078	96,952	131,422	86,972
Slight -----	74,411	41,253	65,587	103,155	79,842	150,197	144,954
Total -----	37,205	23,752	33,787	43,642	38,781	70,092	39,533

The following tables show the number of tons produced per accident:

## DOMESTIC COAL MINES.

Districts	Output	No of Men Empl'd	No. of Tons Produced Per Accident			
			Fatal	Serious	Slight	Total
Pincher Creek	3,955	14				
Lethbridge	857,092	1,429	285,697	171,418	107,124	53,568
Magrath	1,627	3				
Milk River	6,848	33				
Taber	183,485	359			91,747	91,747
Bow Island	7,283	20			7,283	7,283
Medicine Hat	19,028	36			19,028	19,028
Aldersyde	8,069	19				
High River	570	3				
Drumheller	881,081	1,451		145,180	62,934	44,054
Big Valley	34,718	49				
Brooks	9,783	18				
Hanna	29,533	53		29,533		29,533
Lacombe	15,201	35			15,201	15,201
Trochu	18,248	39				
Three Hills	30,150	54		30,150	30,150	15,075
Carbon	5,431	16			5,431	5,431
Battle River	12,203	20				
Camrose	56,597	85		56,597		56,597
Tofield	66,054	76				
Clover Bar	264,868	396		52,973	88,289	33,108
Edmonton	106,756	208		58,378	31,351	15,251
Namoo	21,660	39		10,830	21,660	7,220
Cardiff	266,142	277	133,071	133,071	266,142	53,228
Wabamun	19,250	39				
Pembina	109,429	125		109,429		109,429
Peace River						
Total	3,035,061	4,896	607,012	116,733	77,822	43,358

## BITUMINOUS COAL MINES.

Crow's Nest Pass	1,601,486	1,799	228,784	160,148	177,943	61,595
Canmore	274,709	312	274,709	30,523	19,622	11,446
Brazeau	371,562	429		61,927	371,562	53,080
Jasper Park	283,342	487	56,668	141,671	283,342	35,418
Yellowhead Pass	195,972	314	97,986	32,662	16,331	9,799
Mountain Park	255,263	295	127,631	255,263	255,263	63,815
Total	2,982,334	3,636	175,431	87,712	78,482	33,509

## ANTHRACITE COAL MINES.

Banff	131,225					
-------	---------	--	--	--	--	--



## LIST OF ACCIDENTS WHICH HAVE OCCURRED IN THE DOMESTIC FIELD DURING 1918.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Jan. 1	Cardiff Collieries, Ltd.	George Cook	29	Pumpman	He was pushing the centre car of a trip of three cars and was crushed between the coal rib and side of car. Injury to pelvis and bladder, from which he died on Jan. 5, 1918.
Jan. 4	Canadian Pacific Railway Co., No. 6 Mine, Lethbridge	St. Wolosezuk	23	Coal-loader	He was going home from work and was riding on a trip of loaded coal cars on the railroad from No. 6 mine and jumped off the train while it was in motion, falling with his left arm under the loaded cars, badly crushing the arm which had to be amputated above the elbow.
Jan. 5	Canadian Pacific Railway Co., No. 6 Mine, Lethbridge	John Chumik	46	Night-cager	He was on the cage which was hoisted from surface landing to the tippie and struck his head against the side of the cage. Bruised about chest and scalp wound.
Jan. 7	Twin City Coal Co., Ltd.	E. Halbach	29	Machine-runner	He was operating a coal cutting machine when a piece of rock fell from the roof striking him on the leg. Fractured right leg.
Jan. 8	The Western Commercial Co., Ltd.	Steve Glavis	33	Miner	He was taking down cap-rock when a nigger-head which was in the roof fell on him scratching and bruising him on breast and legs.
Jan. 11	Redcliff Brick & Coal Co., Ltd.	Alfred Womersley	35	Miner	He was loading a car when a piece of cap rock fell from the roof striking him on the left shoulder, side and ankle. Badly bruised shoulder, side and ankle.

## THE MINES BRANCH

LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Jan. 12	Sterling Coal Co., Ltd.	Freddy Chadderton	8	Not employed	He had been delivering lunch pails to men working at this mine and had been sent home. He was not seen again until found with his right hand badly crushed, having been caught in driving gear of slack conveyor. Hand crushed, necessitating amputation of four fingers.
Jan. 16	Canada West Coal Co., Ltd.	Chris Lokitch	30	Loader	He had lit a shot on each side of his room and it is presumed the squib in the one on the left side went out and that he had gone back to relight it, and before he got back to the crosscut the shot on the right side exploded. Cuts on back of neck.
Jan. 16	Guthro & Barr	Otto Grouch	--	Loader	Spark from light fell in powder car, burnt about face and hands.
Jan. 22	The Ellis Coal Co., Ltd.	Fred Lind	35	Miner	Struck by flying coal from a shot, scalp wounds on face and head and bruises on body.
Jan. 26	Cardiff Collieries, Ltd.	Jacob Luoma	31	Machine-runner	Was jacking up his machine when the jack slipped, allowing the machine to fall, catching his hand between the machine and rail, three fingers on right hand smashed, necessitating amputation of third finger at first joint.

## LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Jan. 28	Canadian Pacific Railway Co., No. 6 Mine, Lethbridge	Albert Binda	42	Rollerman	He was attempting to couple a moving trip of empty cars to an empty car that was standing on the curve of No. 4 northwest face entry, when the cars bumper locked and derailed one which struck him on the leg, breaking his leg.
Feb. 2	The Ellis Coal Co., Ltd.	Peter Misenaerick	24	Machine Helper	He had just entered the mine, and had put his tools down and was turning around when his eye came in contact with an auger in the hands of a fellow workman, resulting in injuries to the eye so that it had to be removed.
Feb. 8	Canadian Pacific Railway Co., No. 6 Mine, Lethbridge	Fred Kosyelek	35	Coal-loader	He was working in the last cross-cut off No. 6 face entry southwest when a piece of coal fell from the rib striking him on the leg. Bad cut on right leg.
Feb. 21	Canadian Pacific Railway Co., No. 6 Mine, Lethbridge	James C. Barclay	37	Tipple foreman	He slipped and fell between two empty cars, which were returning from the kickback to the cage, crushing him. Fractured collar bone and bruises to chest.
Mar. 5	McPeak Coal Co.	Guss Frederick	31	Pusher	Jammed between the roof and a loaded car. Cut on head and bruised about the chest.
Mar. 23	Knee Hill Coal Company	Karl Hedbery	35	Miner	A lump of clay rolled on him, dislocating his shoulder.

## THE MINES BRANCH

LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
April 8	McPeak Coal Co.	Steve Denytry	28	Miner	A piece of clay fell from the roof on to his back, injuring it.
April 26	Canadian Pacific Railway, No. 3 Mine, Lethbridge	A. Campbell	31	Timberman	They were engaged in repairing a pipe in a borehole from the surface, and had been working two and a half hours when some gas was ignited at their open lights. Campbell was slightly burned on ears and nose, Moore burned on hands and neck.
		L. Moore	49	Timberman	
April 26	Alberta Coal Mining Co., Ltd.	Andrew Denysiuk	34	Miner	He had ignited the fuse to fire two shots and had returned to the face before the second shot exploded. With the result that he was struck by flying coal. Death occurred on the morning of the 27th April from shock and injuries received.
April 27	Union Collieries, Ltd.	John Dymnisky	24	Driver	He was found lying unconscious on the track in No. 6 entry, bleeding from a wound in his left thigh. He died half an hour after being found. Death was caused by concussion of the brain and loss of blood.
May 16	Drumheller Land Co., Ltd.	Mike Musat	28	Driver	He was bringing out a loaded trip when the first car jumped the track, jamming his left foot between the rail and car bumper. Lacerated foot.

LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
May 27	The Western Commercial Co., Ltd.	Joseph Salva	54	Tracklayer	He was carrying a heavy rail when he slipped and fell, straining his back.
June 4	Rose-Deer Coal Mining Co., Ltd.	Steve Rogich	29	Miner	He was working in a pillar when a piece of rock fell from the roof, striking his back. Bruised back and internal injuries.
June 11	Scranton Coal Mining Co., Ltd.	T. Wychanko	29	Miner	He was putting up timber when the roof fell on his ankle, dislocating it.
June 18	Peerless Coal Co., Ltd.	Stephen Carp	28	Miner	He had fired two shots and after hearing two reports he returned to the face of the room, when the second shot exploded and he was struck by flying coal. Cut over left eye and on side of head.
June 24	Rosedale Coal & Clay Product Co., Ltd.	P. Mikerlin	34	Miner	He was replacing a set of timber that had been blown out by a shot when a piece of rock fell from the roof, striking him on the back. Internal injuries.
June 26	The Great West Coal Co., Ltd.	J. Cherewatin	32	Miner	He was letting a car down the new slope, when the empty car was near the McGinty wheel he slipped and was jammed between post and empty car. Broken collar bone.
July 10	Regal Collieries, Ltd.	George Lupool	35	Driver	He was kicked in the head by a mule. Contusion on forehead.

## THE MINES BRANCH

LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
July 11	The Great West Coal Co., Ltd.	T. A. Macauley	22	Machine-Scraper	He was helping machine runner to load up the machine after finishing a cut when a nigger head fell off the rib onto his leg, breaking the leg above the knee.
July 17	The Western Commercial Co., Ltd.	J. Stewart	37	Miner	Fall of cap rock from roof at face of room. Left foot and ankle bruised.
Aug. 3	Hamilton Coal Co., Ltd.	Norman Kane	29	Engineer	Kane was kindling the fires under the boilers and in transferring a shovelful of burning coal from boiler room to hoist room some of it fell from the shovel on the floor, starting a fire which rapidly spread through the entire building. Burns on hands and arms.
Aug. 5	The Western Commercial Co., Ltd.	Thomas Crawford	45	Tippelman	He was in the act of closing a mine car door and got his finger caught between the car and the door. Crushed finger.
Aug. 7	North American Collieries, Ltd.	G. Cobald	37	Driver	A car got off track, the injured man started to put car back on track without uncoupling horse from trip, horse started up throwing man underneath the car. Compound fracture of left leg between knee and hip.
Aug. 4	Canadian Pacific Railway Co., Mine No. 6, Lethbridge	C. Leoni	38	Coal loader	He was chopping a boom with an axe which slipped and cut him on the back of left hand.

## LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Aug. 11	Cardiff Collieries, Ltd.	John Braban	42	Blacksmith	While punching holes in plate a piece of the face of the hammer flew off hitting him in the eye.
Aug. 14	The Western Commercial Co., Ltd.	Harry Jones	17	Mine laborer	He was throwing a piece of coal in a car and caught his hand between the car and coal. Cut hand.
Aug. 20	Cardiff Collieries, Ltd.	Charles W. Bortoff	39	Hoist Engineer	He was installing screens in the tippie and caught his fingers between plate and a post. One finger tip cut off and one finger bruised.
Aug. 21	The Western Commercial Co., Ltd.	Oscar Goose	17	Driver	Stepped into hot water in mine pump room. Scalded foot.
Aug. 24	McPeak Coal Co.	Edward Spinks	34	Driver	He was coupling cars when his horse started, jamming him between cars and timber. Bruised back and left arm.
Aug. 26	Union Collieries, Ltd.	Thomas Kozma	46	Loader	He was pushing an empty car and caught his foot in the frog of switch, the car ran back onto his foot.
Aug. 29	Canadian Pacific Railway Co., Mine No. 6, Lethbridge	Fred Smith	35	Slate picker	Sprained right foot. He was crawling under the shafting that drives the coal feeder when his belt caught in the shaft coupling. Squeezed around abdomen.
Sept. 19	Hamilton Coal Co., Ltd.	W. H. Huska	24	Driver	While riding on empty cars, a car jumped the track crushing him between the car and a prop. Bruised hip.
Sept. 19	Alberta Block Coal Co., Ltd.	Nick Polenski	29	Machine-runner	A piece of rock fell from the roof. Bruised back, right arm and left leg.

## THE MINES BRANCH

LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Sept. 23	Humberstone Coal Co., Ltd.	Frank Wagner	37	Machine-runner	Piece of rock fell from roof hitting him on the leg at ankle. Cut on ankle.
Sept. 28	The Bush Mine Coal Co.	F. Riedel	28	Miner	He dropped some loose black powder on the floor and was picking it up when the powder ignited from the flame of his cap lamp, burning him about the face and eyes.
Oct. 4	Sturgeon Consolidated Collieries, Ltd.	A. Polsat	28	Pusher	He was crossing the cage seat at the shaft bottom when the cage caught him. Fractured ribs.
Oct. 7	Humberstone Coal Co., Ltd.	Cecil Dawson	20	Rope-rider	He had signalled to the engineer on the surface that he was coming up on the skip, and had stepped into the skip and thinking the engineer had not heard the signal started to get out and had one leg over the side of skip when the engineer started hoisting. He had his leg badly scraped.
Oct. 15	John Keehn	Alexander Krisby	35	Miner	He was pushing an empty mine car when he fell, striking his knee, splitting the kneecap.
Oct. 16	Keith & Fulton	James Finlayson	43	Overman	He was caught between a moving car and a prop. Fractured rib.
Oct. 21	Twin City Coal Co., Ltd.	William Foster	29	Overman	He was acting as rope-rider and failed to detach the clip connecting the rope to the cars and got caught between two cars. Fractured left thigh and bruised foot.



## LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Oct. 22	Edmonton Collieries, Ltd.	Mike Kosikreweg	45	Miner	He was lifting a car on the track when his fingers got caught between the car and rail, cutting the end off the first finger and crushing the other three (left hand).
Oct. 24	North American Collieries, Ltd. (Drumheller)	M. Edwards	35	Miner	He was putting up a set of timber when the roof caved falling on him. Injured internally.
Oct. 26	Twin City Coal Co., Ltd.	William Sandyisk	19	Driver	He was bringing out a trip of full cars and bumped into a full car which had become uncoupled from the trip ahead of him. Bruised hip and injured pelvis.
Oct. 28	McPeak Coal Co.	Edward Shultz	46	Miner	He was digging coal from the face when a piece fell on to his leg. Bruised leg.
Oct. 27	Peter Jones	Allan R. McDonald	36	Not employed	He was standing watching a trip being lowered when the brake strap on the gin broke allowing the drum to travel at a high speed, and a piece of pipe attached to the drum was thrown off catching him on the side of the head, killing him instantly.
Nov. 1	Federal Coals, Ltd.	Thos. Halaburda	59	Miner	Fail of coal at face of room resulting in fractured left leg and internal injuries. Fatal.

## THE MINES BRANCH

LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Nov. 27	Round Hill Collieries, Ltd.	Auton Yurkoski	35	Weighman	The R.R. locomotive was placing empty cars and this man went to move the loading apron when the cars struck the apron crushing him between it and the tippie, breaking one leg below the knee and crushing both legs.
Nov. 29	Canadian Pacific Railway Co., No. 6 Mine	Peter Horhozer	47	Loader	While working at the face a piece of rock fell on his back causing severe bruising of back.
Dec. 4	Canadian Pacific Railway Co., No. 6 Mine	George Miskaleive	26	Driver	The horse he was driving became frightened and pulled an empty car on top of him. Severely bruised about chest and broken ribs.
Dec. 5	The Ben Nevis Mines, Ltd.	John McGladrie	37	Miner	He was working at the face of a room when a fall of rock from the roof struck him on the back. Bruised back and ribs.
Dec. 11	North American Collieries, Ltd., Evansburg	Kenneth Laws	39	Switcher	While taking block from under car wheel he told the motorman to back up and forgot to remove his hand, with the result that the wheel passed over his left hand badly crushing the middle fingers.
Dec. 12	Sturgeon Consolidated Collieries, Ltd., No. 2 Shaft	William Haas	34	Miner	He was being lowered down the shaft on the skip when the brake on the drum slipped allowing the skip to strike the bottom too heavily. Sprained ankle and bruised back.

LIST OF ACCIDENTS IN DOMESTIC FIELD—Continued.

DATE	MINE.	NAME.	AGE	OCCUPATION.	DETAILS.
Dec. 12	Sturgeon Consolidated Collieries, Ltd., No. 2 Shaft	David Osterson	25	Miner	He was being lowered down the shaft on the skip when the brake on the drum slipped allowing the skip to strike the bottom too heavily. Fracture of the fifth lumbar vertebra.
Dec. 12	North American Collieries, Ltd., Coalhurst	Austin Wills	25	Loader	He was loading out coal from the center shot when the side of coal fell on him, breaking his left leg between the knee and ankle.

## THE MINES BRANCH

LIST OF ACCIDENTS WHICH HAVE OCCURRED IN THE BITUMINOUS FIELD DURING 1918.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Jan. 4	Hillcrest Collieries, Ltd.	Louis Fidenato	36	Car coupler	Leg crushed between cars on tippie.
Jan. 4	West Canadian Collieries, Ltd., Bellevue	J. Lipnioka	33	Miner	Fall of top coal in pillar. Cut on heel and right leg injured.
Jan. 4	Brazeau Collieries, Ltd.	P. King	48	Miner	He was mining out a stump of coal in a pillar when coal and cap rock fell on him, breaking his right leg.
Jan. 9	Blue Diamond Coal Co., Ltd.	E. Fondrick	23	Driver	The car on which he was riding jumped the track, crushing him between car and timber. Crushed about hips.
Jan. 22	Hillcrest Collieries, Ltd.	Samuel Edwards	25	Car handler	Caught by loaded cars on No. 1 slope. Fatal.
Jan. 23	Oliphant-Munson Collieries, Ltd.	John Amado	26	Miner	Slipped off platform at face of angle while boring a hole in the top coal. Scalp wound.
Jan. 24	Canmore Coal Co., Ltd.	John Reinnikka	34	Miner	He was walking along the gangway carrying his lamp with his hand on top of the bonnet when a piece of rock fell from the roof striking him on the hand, cutting the second finger of his right hand, necessitating amputation of the finger at the first joint.
Feb. 8	West Canadian Collieries, Ltd., Bellevue	Samuel Parker	36	Miner	Fall of coal from corner of pillar. Fatal.
Feb. 9	Franco-Canadian Collieries, Ltd.	Joseph Beranek	49	Miner	He was starting the coal in No. 92 chute and must have slipped and fallen into the chute and was buried by the coal which suffocated him. Fatal.

## LIST OF ACCIDENTS IN BITUMINOUS FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Mar. 5	North American Collieries, Ltd., Lovettville	Walter Tauchuk	27	Driver	He was spragging the mine cars when the horse started away jamming him between the car and side of roadway. Broken pelvis bone.
Mar. 14	Hillcrest Collieries, Ltd.	William Kuleski	34	Miner	A boom fell from the roof in an old room striking him on the right leg, breaking it above the ankle.
April 3	Franco-Canadian Collieries, Ltd.	Frank Pokorney	39	Miner	Burned on head and hands. Explosion of gas, same being ignited by fire in old workings.
April 3	Franco-Canadian Collieries, Ltd.	Vineel Blecha	38	Miner	
April 4	Canmore Coal Co., Ltd.	G. Forcheim	30	Miner's helper	A piece of rock fell from the roof striking him on the back of his head knocking him against the coal face and cutting his head.
April 4	Saunders Creek Domestic & Steam Coal Co., Ltd.	Alexander Content	30	Driver	Fracture on left side of pelvis. Ridding a horse when it ran away, crushing him between two trees.
April 11	Saunders Creek Domestic & Steam Coal Co., Ltd.	J. Jacquart	35	Miner	Premature explosion of detonator. Loss of thumb and two fingers.
April 12	Blue Diamond Coal Co., Ltd.	T. Davis	29	Miner	Bruised hip. Missed his footing coming down from angle to counter entry and fell down into the raise.
April 15	International Coal & Coke Co., Ltd.	Antonio Cemetta	39	Miner	Left arm broken below elbow. Fall of coal at face of room.
April 15	Jasper Park Collieries, Ltd.	Frank Lombardo	48	Miner	He was preparing a place to set a prop when a piece of rock fell from the roof striking him on the head, fracturing his skull and causing instant death.

## LIST OF ACCIDENTS IN BITUMINOUS FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
April 19	Jasper Park Collieries, Ltd.	Daniel McLeod	20	Motorman acting as Driverboss	He got off the motor to run ahead and open No. 2 door and must have been caught between the front car and door which had not been opened. Injuries to brain and spinal cord. Fatal.
May 4	West Canadian Collieries, Ltd., Bellevue	W. Fisher	48	Examiner	Fell over a wing board striking his ribs on the board. Bruised side.
May 14	Oliphant-Munson Collieries, Ltd.	John H. Brownrigg Karl Krauze Walter Landon Wm. Oliphant (Jr.) John Dagulle Daniel Gibson J. Werbocki Joe Szotkowski W. H. Martin George Lee Steve Romaunk Bill Romaunk M. Biluski Andrew Kostuk R. Prud A. Urban Joe Pawlshyn Mike Hibchuk	33 34 39 38 24 48 49 35 38 41 22 26 39 38 37 38 27 24	Manager Blacksmith Carpenter Mechanic Miner Laborer Miner Miner Miner Miner Laborer Laborer Miner Miner Miner Miner Miner laborer	A fire occurred in the time office and extended to powder house. Building had burned down and thinking everything safe an attempt was made to save the blacksmith shop adjoining when the powder in powder house exploded, with the result that Brownrigg and Krauze were killed and the rest injured.
May 17	McGillivray Creek Coal & Coke Co., Ltd.				He was pushing coal down a chute in No. 1 slope when a piece of coal rolled over the check board, striking him on the left leg, breaking it above the knee.

## LIST OF ACCIDENTS IN BITUMINOUS FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
May 21	McGillivray Creek Coal & Coke Co., Ltd.	Ferdinand Thierey	52	Miner	He was digging the bench coal when a large piece of rock fell from the roof, severely crushing his back and left side. Fatal.
May 25	West Canadian Collieries, Ltd., Bellevue	William Randall	16	Outside laborer	Team ran away and he was thrown out of the wagon breaking his leg and seriously cutting his thigh.
May 30	West Canadian Collieries, Ltd., Bellevue	P. McLafferty	30	Miner	Fall of top coal in pillar, serious injuries to back, chest and head.
June 1	Blue Diamond Coal Co., Ltd.	John Kulba	24	Driver	He was breaking a new horse to work, which got excited and crushed him up against the car. Crushed hips.
June 4	International Coal & Coke Co., Ltd.	Thomas Merriam	43	Miner	He was working in a pillar when a piece of cap rock fell from roof. Dislocated right shoulder and cut on side of head.
June 5	Franco-Canadian Collieries, Ltd.	Robert Barnhill	53	Miner	He was riding up the slope on a trip of cars when he slipped off in front of the trip, being badly bruised by the cars.
June 12	Cadomin Coal Co., Ltd.	Philip Sharamata	22	Miner	He was repairing timber in No. 27 angle near counter level, when a fall of coal took place burying him and suffocating him. Fatal.
June 13	Blue Diamond Coal Co., Ltd.	Daniel McLean	32	Miner	He was repairing timber, when a fall of coal took place, burying him, crushing him so that he died before being taken out from the cave.
June 15	Canmore Coal Co., Ltd.	Ng Hoy (Chinese)	25	Laborer	He was working at a loading chute when a piece of coal fell from the chute, striking him on the head.

LIST OF ACCIDENTS IN BITUMINOUS FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
June 22	West Canadian Collieries, Ltd., Greenhill.	Fred Lund	30	Miner	Fall of coal at face of room, dislocated hip.
June 28	West Canadian Collieries, Ltd., Bellevue	G. Moro	36	Mechanic's helper	He was blasting rock and had tamped and fired two shots, the second shot did not explode until he got back when it went off, blowing four fingers off his right hand.
July 17	West Canadian Collieries, Ltd., Bellevue	Walter Warn	38	Outside foreman	He was cutting the side-poles on a railway car when the pole gave way allowing the lumber to fall on him, dislocating his hip and breaking his leg.
July 19	Cadomin Coal Co., Ltd.	G. Lee	42	Outside laborer	He was rolling logs, one of which rolled back onto his leg, breaking it below the knee (left leg).
July 27	West Canadian Collieries, Ltd., Bellevue	J. Porwitt	26	Brakeman	Head jammed between cars when in the act of coupling cars when in motion. Crushed head. He died from the effects of injury on July 30th.
July 31	Blue Diamond Coal Co., Ltd.	E. V. Fisher	37	Miner	He was drawing a pillar when the coal ran and he was caught by the coal and buried. Suffocated. Fatal.
Aug. 2	Canmore Coal Co., Ltd.	Nick Drapaka	29	Slope cager	He was coupling cars when the cars bumped and caught his arm. Bruised right forearm.
Aug. 3	Canmore Coal Co., Ltd.	Mike Coleyak	35	Miner	A piece of rock fell from the roof cutting his hand.
Aug. 6	Canmore Coal Co., Ltd.	Joseph Kanik	36	Rope rider	His leg was caught between the bumpers of two cars. Fracture of right leg above the ankle.



LIST OF ACCIDENTS IN BITUMINOUS FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Aug. 6	Brazeau Collieries, Ltd.	K. Haratyчук	24	Miner	The injured person was lowering a loaded car down slant, with a hemp rope, got his foot caught in loose coil of rope which was pulled against the snubbing post. Fracture of right leg.
Aug. 14	Canmore Coal Co., Ltd.	John T. Musgrove	48	Overman	He was at the sinking pump near foot of the slope when an empty car was pushed over the knuckle without being attached to the rope. The car struck him, fracturing his skull and left leg, from the effects of which he died.
Aug. 14	West Canadian Collieries, Ltd., Bellevue	C. Matousk	21	Bucker	Bucking coal in chute when piece of coal struck him on the head. Cuts on face and scalp.
Aug. 16	International Coal & Coke Co., Ltd.	Josef Klis	32	Miner	Piece of high side coal and timber leg fell striking him on the back, throwing him under a loaded stationary car. Broken neck. Fatal.
Aug. 19	Brazeau Collieries, Ltd.	A. Storosbchuk	38	Miner	He was lowering a loaded car by means of a McGinty and did not apply the brake when the car got out of control, with the result that the empty struck him. Left cheek bone, lower jaw and right leg fractured, right hand badly torn.
Aug. 22	Canmore Coal Co., Ltd.	Alec Chalifey	21	Rope rider	He was caught between a loaded car and prop. Bruised on left thigh and abdomen.

## THE MINES BRANCH

LIST OF ACCIDENTS IN BITUMINOUS FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Aug. 29	Canmore Coal Co., Ltd.	Robert Wade	34	Miner	He was moving a piece of rock when another piece rolled down, striking him on the finger. Bruised and lacerated little finger, left hand.
Sept. 3	Hillcrest Collieries, Ltd.	Joe Royle	16	Car handler	Foot caught between loaded cars when his horse ran away. Bruised left foot.
Sept. 10	Saunders Creek Domestic & Steam Coal Co., Ltd.	H. M. Williams	45	Clerk	Fell over side of tippie. Fracture of left forearm.
Sept. 10	Saunders Creek Domestic & Steam Coal Co., Ltd.	C. S. Thornton	26	Driver	Got his foot caught under car bumper when jumping off car at tippie. Bruised foot.
Sept. 12	Canmore Coal Co., Ltd.	Hans Sar	22	Miner	A piece of rock fell on his foot. Bruised right foot.
Sept. 13	Canmore Coal Co., Ltd.	Dym Ewashuk	22	Rope-rider	He was uncoupling cars when horses started up and his finger was jammed. Lacerated first finger, left hand.
Sept. 16	West Canadian Collieries, Ltd., Bellevue	Joseph Newton	17	Bucker	He was riding on the back end of air motor hauling trucks when the first truck jumped the track, knocking out a post which struck him on the head. Fatal.
Sept. 28	Canmore Coal Co., Ltd.	Fred Bukoway	40	Miner	Piece of rock fell from the roof, striking him on the back. Bruised back.
Oct. 2	Canmore Coal Co., Ltd.	Vernon Pearson	29	Ass't Master Mechanic	Was kicked on the leg by a horse working on the tippie. Bruised leg.
Oct. 3	Canmore Coal Co., Ltd.	Sam Ewashuk	28	Driver	The horse he was driving stepped on his foot and knocked him down, injuring him on his knee and abdomen.

## LIST OF ACCIDENTS IN BITUMINOUS FIELD—Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Oct. 16	Canmore Coal Co., Ltd.	Wm. Kudafto	25	Miner	He was taking a car out from his working place when he got caught between the car and a prop. Bruised left side and one rib broken.
Oct. 17	Oliphant-Munson Collieries, Ltd.	Angelo Evanoff	30	Miner	He was inserting the detonator into a stick of powder when it exploded, resulting in the loss of his left hand and injury to his face.
Oct. 19	Canmore Coal Co., Ltd.	John Niemi	41	Miner	A piece of coal fell from the roof, striking him on the shoulder, fractured right shoulder blade and rib.
Oct. 21	Canmore Coal Co., Ltd.	John Wholle	39	Miner	A piece of rock rolled down from the high side of place crushing his leg against a timber.
Oct. 30	Blue Diamond Coal Co., Ltd.	Dymitro Brezko	38	Miner	He was preparing to place a set timber when a fall of coal and rock took place, burying him. His partner was framing the timber at the time. Death was caused through shock.
Nov. 8	Canmore Coal Co., Ltd.	Geo. Drapka	38	Bratticeman	He was carrying some boards into a crosscut and was knocked down by a passing empty car. Bruised ankle.
Nov. 9	Canmore Coal Co., Ltd.	Wm. Bohyczuk	25	Miner	A piece of cap rock fell from the roof striking him on the head. Small cut on head.
Nov. 19	West Canadian Collieries, Ltd.	M. Ghiringhelli	32	Fanman	He was lighting a fire in the fan house stove, using gasoline. The gasoline exploded, throwing fire onto him. Severely burnt feet and left hand

## LIST OF ACCIDENTS IN BITUMINOUS FIELD--Continued.

DATE	MINE	NAME	AGE	OCCUPATION	DETAILS
Dec. 10	McGillivray Creek Coal & Coke Co., Ltd.	W. E. G. Hall	33	Assistant surveyor	He was climbing on a chute for the purpose of putting a spad in the roof when he slipped. Left leg broken between knee and ankle.
Dec. 19	Canmore Coal Co., Ltd.	James Reid	38	Examiner	A shot was fired by Reid in a large piece of rock, ignited some gas causing a slight explosion, resulting in Reid, Zboya, Reinnikka and Niamchuk being burnt about the head, face and hands, and Nicaise being slightly burnt on face and hands, his back bruised and both arms broken.
		John Zboya	33	Miner	
		John Reinnikka	35	Miner	
		John Niamchuk	28	Miner	
		Ig. Nicaise	53	Bratticeman	
Dec. 21	Cadomin Coal Co., Ltd.	John Luklan	29	Miner	He went into a crosscut off No. 48 Angle, after being warned not to do so, as there was gas in it. He was asphyxiated.
Dec. 24	Mountain Park Coal Co., Ltd.	D. Greaci	25	Chute-loader	He was bucking coal down the chute when a cave occurred causing a rush of coal which knocked him down in the chute. Cut face, bruised back and neck.

## FATAL ACCIDENTS.

The fatal accident which occurred to George Cook on January 1, 1918, at the mine operated by the Cardiff Collieries, Limited, near Cardiff, was caused through his being crushed between the coal rib and a full car. He was pushing the center car of a trip of three cars, and got crushed as above, resulting in injury to the bladder and crushed pelvis, from the effects of which he died on January 5, 1918.

The fatal accident which occurred to Samuel Edwards on January 22, 1918, at the mine operated by the Hillcrest Collieries, Limited, Hillcrest, was caused through his being caught by a trip of runaway loaded cars on No. 1 slope. He apparently was walking up the slope behind the trip when the link between the first and second cars broke, letting three cars back down the slope, catching Edwards, death being instantaneous.

The fatal accident which occurred to Samuel Parker on February 8, 1918, at the mine operated by the West Canadian Collieries, Limited, Bellevue, was caused through a fall of coal from the corner of a pillar.

The fatal accident which occurred to Joseph Berauck on February 9, 1918, at the mine operated by the Franco-Canadian Collieries, Limited, Frank, was caused through his falling in the chute when starting the coal, and being buried by the coal, which suffocated him.

The fatal accident which occurred to Frank Lombardo on April 15, 1918, at the mine operated by the Jasper Park Collieries, Limited, Pocahontas, was caused through a fall of rock. He was preparing to set a prop when a piece of rock fell from the roof, striking him on the head and fracturing his skull, causing instant death.

The fatal accident which occurred to Daniel McLeod on April 19, 1918, was caused through his being caught between a trip of loaded mine cars and a door on the main entry. He got off the motor, which was pushing a trip of loaded cars out ahead of it, and went ahead to open the door, when in some manner he got caught as above, the door not having been opened, receiving injuries to the spinal cord and brain which proved fatal.

The fatal accident which occurred to Andrew Denysink on April 26, 1918, at the mine operated by the Alberta Coal Mining Company, Limited, Cardiff, was caused through his returning to his place before the second of two shots had exploded. He had ignited the fuse for two shots, and was returning to the face, when the second shot exploded, the flying coal from which struck him, causing injuries to the head and arms, from the effect of which he died on the morning of the 27th of April, 1918.

The fatal accident which occurred to John Dymnisky on April 27, 1918, at the mine operated by the Union Collieries, Limited, near Diamond City, was caused through his being injured in some manner not known. He was driving a horse, and was taking two loaded cars to the outside from a working place, when he was found

lying on the track, having received injuries in some unknown manner to his head and left leg, from which he died, death being due to loss of blood and concussion of the brain.

The fatal accident which occurred to John H. Browrigg and Karl Krauze on May 14, 1918, at the mine operated by the Oliphant-Munson Collieries, Limited, Oliphant Mines, was caused through an explosion of powder. A fire occurred in the time office building, a portion of which was used to store the daily supply of powder. The fire in this building had burned down and a fire had started in the blacksmith shop adjoining and attempts were being made to put out the fire in the blacksmith shop when the powder exploded, killing the above and injuring several others.

The fatal accident which occurred to Ferdinand Thiery on May 21, 1918, at the mine operated by the McGillivray Creek Coal and Coke Company, Limited, near Coleman, was caused through a fall of rock from the roof. He was digging the bench coal when a large piece of rock fell from the roof, crushing his back and left side, from the effect of which he died shortly after.

The fatal accident which occurred to Philip Sharamato on June 12, 1918, at the mine operated by the Cadomin Coal Company, Limited, at Cadomin, near Mile 22, on the Grand Trunk Pacific Coal Branch, was caused by a fall of coal. He was repairing an angle when a fall of roof coal took place, burying him and suffocating him.

The fatal accident which occurred to Daniel McLean on June 13, 1918, at the mine operated by the Blue Diamond Coal Company, Limited, Brule Mines, was caused through his being buried by a fall of coal. He was repairing the timber in a pillar, when a fall of coal took place, crushing him so that he died before being taken out.

The fatal accident which occurred to J. Porwitt on July 27, 1918, at the mine operated by the West Canadian Collieries, Limited, Bellevue, was caused by being jammed between loaded cars. He was coupling cars while in motion, and got his head crushed between the cars, receiving injuries from which he died on the 30th July, 1918.

The fatal accident which occurred to E. V. Fisher on July 31, 1918, at the mine operated by the Blue Diamond Coal Company, Limited, Brule Mines, was caused by a fall of coal. He was drawing pillars, and had got in behind the battery to start the coal, when a rush of coal caught and buried him, death being due to suffocation.

The fatal accident which occurred to John T. Musgrove on August 14, 1918, at the mine operated by the Canmore Coal Company, Limited, Canmore, was caused by his being struck by a run-away empty car on the slope. He was at the sinking pump, near the foot of the slope, when an empty car which had been pushed over the knuckle at the top, becoming detached from the rope, ran down the slope, striking him, fracturing his skull and left leg, from the effects of which he died about one hour and a half later.

The fatal accident which occurred to Joseph Klis on August 16, 1918, at the mine operated by the International Coal & Coke Company, Limited, Coleman, was caused by a fall of coal. He and his partners were loading a car, having placed the legs for a set in position, when a piece of coal slipped off the high rib, knocking out the leg, which struck Klis, fracturing his skull, killing him instantly.

The fatal accident which occurred to Joseph Newton on September 16, 1918, in the mine operated by the West Canadian Collieries, Limited, Bellevue, was caused through his being struck on the head by a prop. It is presumed that he was riding on the back end of the compressed air locomotive when a timber truck got off the track, knocking out a post, which struck him on the head, from the effects of which he died shortly after being struck.

The fatal accident which occurred to Allan R. McDonald on October 27, 1918, at the mine operated by Peter Jones, near Diamond City, was caused through his being struck on the head by a piece of pipe. He was standing watching a loaded car being lowered down a surface incline, when the brake strap broke, allowing the drum to travel at a high speed, and a piece of pipe attached to the pulling arm broke loose and caught him on the side of his head, killing him instantly.

The fatal accident which occurred to Dymitro Brezko on October 30, 1918, at the mine operated by the Blue Diamond Coal Company, Limited, Brule Mines, was caused by a fall of coal and rock in pillar workings. He was preparing to place a set of timber when a fall of coal and rock took place, burying him. He was taken out within twenty minutes, but was dead, death being caused through shock.

The fatal accident which occurred to Thomas Halaburda on November 1, 1918, at the mine operated by the Federal Coal, Limited, near Lethbridge, was caused by a fall of coal. He was taking down draw slate at the face of his room, having loaded out part of the coal that was undercut, when a large piece of coal rolled out from the face of the room onto his leg, fracturing it and injuring him internally. He died about three hours after the accident from shock.

The fatal accident which occurred to John Luklan on December 21, in the mine operated by the Cadomin Coal Company, Limited, was caused through asphyxiation. He entered a crosscut, off the angle which he was driving, where an accumulation of gas had been fenced off. The examiner had previously warned him not to enter this crosscut.

On May 21, 1918, William Nikol died from the effects of an accident which occurred to him on October 31, 1917, in the mine operated by the Chinook Coal Company, Ltd., near Commerce, in which he had his leg broken.

This accident is not included in the number reported for 1918.

TABLE SHOWING ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1918

Months	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January -----		2	2	4	2	6	7	15	19
February -----		1		1	2	1	1	4	5
March -----			1	1		2	1	3	4
April -----		1		1	4	2	7	13	14
May -----	2	5	11	18	1	2	3	6	24
June -----		1	1	2	2	5	4	11	13
July -----		2		2	2	1	2	5	7
August -----		1	3	4	2	4	11	17	21
September -----		1	1	2	1		8	9	11
October -----	1		1	2	1	8	6	15	17
November -----		2		2	1		3	4	6
December -----			1	1	1	13	3	17	18
	3	16	21	40	19	44	56	119	159

Note—In the month of May there were two persons killed, four persons seriously injured, and eleven slightly injured by an explosion of powder in the mine office of the Oliphant-Munson Collieries, near Coalspur, caused by fire.

Tabulated list of Accidents occurring in the Province above and below ground during the year 1918:

Cause	Fatal		Serious		Slight		Total	
	A	B	A	B	A	B	A	B
Haulage -----	1	7	2	17	1	14	4	38
Falls of rock -----		2		5		20		27
Falls of coal -----		7		7		3		17
Shaft accidents -----				2	1	2	1	4
Shot-firing -----		1	1	3		4	1	8
Ignition of gas -----				5		4		9
Asphyxiation -----		1						1
Falling in chute -----		1						1
Struck by coal in chute -----				1		2		3
Fall of timber in room -----				1				1
Slipped while coming down angle -----						1		1
Electric coal-cutter -----				1				1
Tipple machinery -----			2		1		3	
Struck by empty cars on tipple -----			1		1		2	
Struck by loaded cars on tipple -----					2		2	
Ignition of powder from fire at the office -----	2		4		11		17	
Unloading timber -----			2				2	
R. R. cars -----			2				2	
Miscellaneous -----			2	2	4	6	6	8
	3	19	16	44	21	56	40	119



Tabulated List of Accidents occurring in the Province above and below ground during the year 1918, classified according to the Districts in which they occurred.

Name of District	Fatal		Serious		Slight		Total		Total above and below ground
	Above	Below	Above	Below	Above	Below	Above	Below	
Crow's Nest Pass		7	4	6	1	8	5	21	26
Pincher Creek									
Lethbridge	1	2	2	3	2	6	5	11	16
Magrath									
Milk River									
Taber						2		2	2
Bow Island						1		1	1
Medicine Hat						1		1	1
Aldersyde									
High River		1		9	2	12	2	22	24
Canmore									
Banff				5	3	11	4	16	20
Drumheller			1						
Big Valley			2	4	1		3	4	7
Brazeau									
Brooks				1				1	1
Hanna						1		1	1
Lacombe									
Trochu									
Three Hills				1		1		2	2
Carbon						1		1	1
Battle River									
Camrose			1				1		1
Toftield									
Clover Bar				5		3		8	8
Edmonton				2		5		7	7
Namoo				2		1		3	3
Cardiff		2	1	1	1		2	3	5
Wabamun									
Pembina				1				1	1
Jasper Park		5		2		1		8	8
Yellowhead Pass	2		4	2	11	1	17	3	20
Mountain Park		2	1			1	1	3	4
Peace River									
	3	19	16	44	21	56	40	119	159

The following tables give the classification of accidents according to the Coal Field in which they occurred:

### DOMESTIC.

CAUSE	ABOVE GROUND			BELOW GROUND		
	Fatal	Serious	Slight	Fatal	Serious	Slight
Rope haulage, caught by cars off the track-----					1	
Rope haulage, McGinty caught between car and timber-----					1	
Rope haulage, failed to uncouple cars from rope-----					1	
Electric storage battery, locomotive haulage, hand crushed between rail and car-----					1	
Horse haulage, crushed under cars-----					2	
Horse haulage, crushed under cars-----						1
Horse haulage, crushed between car and side of entry-----				1	1	
Horse haulage, crushed between car and timber-----						1
Horse haulage, coupling cars-----				1		1
Horse haulage, foot crushed between rail and car-----						1
Mule haulage, kicked on head by mule-----						
Hand haulage, hand crushed between rail and cars-----					2	
Hand haulage, crushed between roof and car-----						1
Hand haulage, slipped while pushing car-----					1	
Hand haulage, sprained foot-----						1
Shaft accident, crushed between cage and tippie-----			1			
Shaft accident, crushed between skip and side of shaft-----						1
Shaft accident, crushed while crossing cage seat-----					1	
Shaft accident, engine brake slipped-----					1	
Fall of rock at face of room-----					1	
Fall of rock at face of room while timbering-----					4	
Fall of rock in pillar working-----						9
Fall of coal at face of crosscut-----					2	
Fall of coal at face of room-----					1	
Electric coal cutter-----				1	2	1
Ignition of gas from open lamp-----					1	
Shot firing, open lamp fell in black powder-----						2
						2

Shot firing, went back on shots too soon						1
Shot firing, struck by flying coal from shot						1
Tippie machinery						
Struck by empty cars on tippie						
Struck by loaded cars on tippie						
R.R. cars, crushed between cars and tippie						
R.R. cars, slipped while getting off moving cars						
Incline haulage, struck by bar from moving drum						
Miscellaneous						
	1	5	6	4	21	33

## BITUMINOUS.

CAUSE	ABOVE GROUND			BELOW GROUND		
	Fatal	Serious	Slight	Fatal	Serious	Slight
Rope haulage, struck by runaway empty cars				1		
Rope haulage, struck by runaway loaded cars				1		
Rope haulage, crushed between car and timber					1	1
Rope haulage, crushed while coupling cars						1
Rope haulage, struck by trip of loaded cars						1
Rope haulage, struck by empty car					2	
Rope haulage, caught in McGinty rope						
Compressed air locomotive haulage, coupling cars				1		
Compressed air locomotive haulage, struck by timber dislodged by trip				1		
Compressed air locomotive haulage, crushed between door and loaded cars				1		
Horse haulage, coupling						1
Horse haulage, crushed between horse and car					1	
Horse haulage, crushed between timber and car					2	
Horse haulage, stepped on by horse						1
Horse haulage, foot caught under car-bumper			1			
Horse haulage, runaway team		1				
Horse haulage, runaway horse		1				1
Hand haulage, crushed between car and timber					1	
Fall of rock on entry					1	
Fall of rock at face of room				2		6
Fall of rock in pillar workings						1
Moving rock in pillar workings						1
Fall of coal at face of entry				1		
Fall of coal at face of room					3	
Fall of coal in pillar workings				4	2	1
Fall of coal repairing timber				1		
Fell in chute, smothered by coal				1		
Struck by piece of coal in chute					1	2
Ignition of gas						2

Ignition of gas by shot in rock					5
Premature ignition of detonator					1
Premature explosion of powder					1
Asphyxiation by gas in crosscut				1	
Fall of timber in room					1
Slipped while coming down angle					
Crushed between cars on tipples				1	1
Ignition of powder from fire in office	2	4		11	
Unloading timber, caught by rolling timbers		2			
Went back on shots too soon		1			
Miscellaneous		2		2	2
	2	11	15	15	23
					23

Table showing accidents during 1918 classified according to the Mines in the DOMESTIC field in which they occurred:

Name of Operator	District	ABOVE GROUND				BELOW GROUND				Total above and below
		Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Can. Pac. Ry. Dept. Nat. Res. No. 3	Lethbridge	---	---	---	---	---	---	2	2	2
Can. Pac. Ry. Dept. Nat. Res. No. 6	Lethbridge	---	2	2	4	---	2	3	5	9
Federal Coals, Ltd.	Lethbridge	---	---	---	---	1	---	---	1	1
Union Collieries, Ltd.	Lethbridge	---	---	---	---	1	---	---	1	1
Trusts & Guarantee Co., Ltd.	Lethbridge	---	---	---	---	---	1	---	1	1
North Amer. Coll., Ltd., Coalhurst	Lethbridge	---	---	---	---	---	---	---	---	1
Peter Jones, Coalhurst	Lethbridge	1	---	---	1	---	---	---	---	1
Canada West Coal Co., Ltd.	Taber	---	---	---	---	---	---	1	1	1
Regal Collieries, Ltd.	Taber	---	---	---	---	---	---	1	1	1
Guthro & Barr,	Bow Island	---	---	---	---	---	---	1	1	1
Redcliff Brick & Coal Co., Ltd.	Medicine Hat	---	---	---	---	---	---	1	1	1
Rosedale Coal & Clay Products, Ltd.	Drumheller	---	---	---	---	---	3	---	3	3
Rose-Deer Coal Mining Co., Ltd.	Drumheller	---	---	---	---	---	---	1	1	1
Drumheller Land Co., Ltd.	Drumheller	---	---	---	---	---	---	1	1	1
North American Collieries, Ltd. (Mon-arch Mine)	Drumheller	---	---	---	---	---	1	1	2	2
Sterling Coal Co., Ltd.	Drumheller	---	1	---	1	---	---	---	---	1
Alberta Block Coal Co., Ltd.	Drumheller	---	---	---	---	---	---	1	1	1
Western Commercial Co., Ltd.	Drumheller	---	---	1	1	---	---	5	5	6
Peerless Coal Co.	Drumheller	---	---	1	1	---	1	---	1	2
Scranton Coal Co., Ltd.	Drumheller	---	---	---	---	---	---	1	1	1
Hamilton Coal Co., Ltd.	Drumheller	---	1	---	1	---	---	1	1	2
John Keehn	Hanna	---	---	---	---	---	1	---	1	1
The Ben Nevis Mines, Ltd.	Lacombe	---	---	---	---	---	---	1	1	1
The Ellis Coal Co., Ltd.	Three Hills	---	---	---	---	---	1	---	1	1
Knee Hill Coal Co., Ltd.	Carbon	---	---	---	---	---	---	1	1	2
Round Hill Collieries, Ltd.	Camrose	---	1	---	1	---	---	---	---	1
Humberstone Coal Co., Ltd.	Clover Bar	---	---	---	---	---	---	2	2	2
The Bush Mine Coal Co.	Clover Bar	---	---	---	---	---	---	1	1	1
Keith & Fulton	Clover Bar	---	---	---	---	---	1	---	1	1

[illegible]

Table showing accidents during 1918 classified according to the Mines in the BITUMINOUS field in which they occurred:

Name of Operator	District	ABOVE GROUND				BELOW GROUND				Total above and below
		Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Hillcrest Collieries, Ltd.	Crow's Nest Pass	---	---	1	1	1	1	1	3	4
Franco-Canadian Collieries, Ltd.	Crow's Nest Pass	---	---	---	---	1	---	3	4	4
West Can. Collieries, Ltd., Bellevue	Crow's Nest Pass	---	4	---	4	3	1	3	7	11
International Coal & Coke Co., Ltd.	Crow's Nest Pass	---	---	---	---	1	1	1	3	3
McGillivray Creek Coal & Coke Co., Ltd.	Crow's Nest Pass	---	---	---	---	1	2	---	3	3
West. Can. Coll., Ltd. (Green Hill)	Crow's Nest Pass	---	---	---	---	---	1	---	1	1
Canmore Coal Co., Ltd.	Canmore	---	---	2	2	1	9	12	22	24
Brazeau Collieries, Ltd.	Brazeau	---	---	---	---	---	3	---	3	3
Saunders Creek Dom. & Steam Coal Co., Ltd.	Brazeau	---	2	1	3	---	1	---	1	4
Jasper Park Coll., Ltd.	Jasper Park	---	---	---	---	2	---	---	2	2
Blue Diamond Coal Co., Ltd.	Jasper Park	---	---	---	---	3	2	1	6	6
North American Coll., Ltd. (Lovett)	Yellowhead Pass	---	---	---	---	---	1	---	1	1
Oliphant-Munson Collieries, Ltd.	Yellowhead Pass	2	4	11	17	---	1	1	2	19
Mountain Park Coal Co., Ltd.	Mountain Park	---	---	---	---	---	---	1	1	1
Cadomin Coal Co., Ltd.	Mountain Park	---	1	---	1	2	---	---	2	3
		2	11	15	28	15	23	23	61	89

No accidents were reported as having occurred in the Anthracite field during the year 1918.



## LIST OF PROSECUTIONS UNDER THE MINES ACT DURING 1918.

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
North American Collieries, Ltd. (Lovett)	Miner	That he did leave powder can in mine. (Sub-section 6 of Section 113)	Convicted	\$10.00 or three months	\$2.50
North American Collieries, Ltd. (Lovett)	Miner	That he did go into the mine in an intoxicated condition. (Section 100)	Convicted	\$10.00 or three months	\$2.50
North American Collieries, Ltd. (Lovett)	Miner	That he did go into the boiler room and tamper with valves of the injector. (Section 97)	Convicted	\$10.00 or three months	\$2.50
North American Collieries, Ltd. (Lovett)	Track-layer	That he did go into the mine in an intoxicated condition. (Section 100)	Convicted	\$15.00 or three months	\$2.50
Yellowhead Coal Company, (No. 1 Seam)	Miner	That he did use a shot-firing battery to discharge his shots. (Clause "A" Sub-section 10, Section 65)	Convicted	Fined \$25.00	\$3.50
The Hillcrest Collieries, Ltd.	Miner	That he did walk up or down the No. 1 hoisting slope without permission of the manager or overman. (Sub-section 2, Section 114)	Convicted	\$20.00 or one month	\$8.50
C. Freemont Henry	Operator	That he did fail to comply with Section 42 of The Mines Act for the month of May, 1918	Convicted	Fined \$5.00	\$3.00
Stephen Schmidt	Operator	That he did fail to comply with Section 42 of The Mines Act for the month of April and month of May, 1918	Convicted	Fined \$5.00	\$3.00

LIST OF PROSECUTIONS UNDER THE MINES ACT DURING 1918.—*Continued.*

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
The Canmore Coal Co., Ltd.	Miner	That he did ride on cars in the mine without permission of the manager. (Section 103)	Convicted	\$50.00 or two months	\$6.00
The Canmore Coal Co., Ltd.	Rope-rider	That he did tie back with wire a safety switch handle. (Section 97)	Convicted	\$50.00 or two months	\$12.00
R. Murtland	Operator	That he did operate the Murtland Mine No. 715 without a certificated person being in charge. (Sub-section 5, Section 29)	Convicted	Fined \$10.00	\$9.00
R. Murtland	Operator	That he did fail to have the necessary notices posted and registers kept. (Sub-section 3, Section 9, also Sections 126, 5, 10 and 60)	Convicted	Fined \$10.00	\$9.00

## MINE RESCUE AND FIRST AID WORK.

Mine Rescue Stations are in operation at the mines operated by the Canadian Pacific Railway Co., Department of Natural Resources, Lethbridge; North American Collieries, Ltd., Coalhurst; the Chinook Coal Co., Ltd., Commerce; the Jasper Park Collieries, Ltd., Pocahontas; the Brazeau Collieries, Ltd., Nordegg; and the Mountain Park Coal Co., Ltd., Mountain Park.

In addition to these stations there are also three cars in operation. Car No. 1 visits all the mines in the Crow's Nest Pass District, Car No. 2 the mines at Canmore and Bankhead, and Car No. 3 the mines in the Drumheller and Big Valley Districts.

Car No. 1 is under the charge of Mr. Edward Royle, Car No. 2, Mr. Wm. B. Powell, and Car No. 3, Mr. John Hooks. The Lethbridge, Commerce and Coalhurst stations are under the charge of Mr. Samuel Troman; the Pocahontas station, Mr. James Clyne; the Nordegg station, Mr. James M. Stewart; and the Mountain Park station, Mr. James Derbyshire.

The superintendents in charge of the cars and the Lethbridge, Commerce and Coalhurst stations, devote their whole time to instruction in first aid and mine rescue work, while the superintendents of the other stations are employed at the mines where the stations are located and devote whatever portion of their time is necessary to this work.

Messrs. Troman, Hooks and Royle are returned soldiers, and it is intended that, when consistent with efficiency, returned soldiers will in future be appointed superintendents of all mine rescue cars and stations.

The cars are fully equipped for mine rescue work and are divided into lecture-room, office, kitchen and toilet. A small engine and dynamo, and a set of batteries for recharging electric cap lamps that are used by the men when in training, have been installed in each car. These plants also supply light for the cars. Provision is also made for cooking and sleeping accommodation for persons engaged in mine rescue work. The cars can either be heated by heaters installed on the cars, or by steam supplied from the mines at which they are stationed.

Provision is also made at each car and station for the recharging of the portable electric lamps, by the electric plant at the mine at which the car or station is located, so that these lamps can be recharged without having to be removed from the car. This is in addition to the electric plant that is installed on each car.

The Edison electric cap lamp has now been installed on all the cars and stations with the exception of Car No. 2, which has the Wico Electric cap lamp. The Lethbridge, Commerce and Coalhurst stations have the use of the Edison Electric cap lamps at the mines at which these stations are located.

All the mine rescue apparatus at present in use in the Province is of the Proto type, and is capable of being used for at least two hours' continuous work. The Gibb mine rescue apparatus, after several tests had been made to prove its efficiency, was found to give satisfactory results, and it is expected that before the 31st of December, 1919, car No. 3 will be equipped with 10 sets of this apparatus, together with a full supply of spare parts for same.

## THE MINES BRANCH

The following is the equipment kept in each car and station (including ten apparatus of the Gibbs type, which have been ordered, but not yet received).

Equipment	CARS			Lethbridge Station	Coalhurst Station	Commerce Station	Nordegg Station	Peachontas Station	Mountain Park Station	Totals
	No. 1	No. 2	No. 3							
Breathing apparatus (Gibbs)	10	10	10	10	5	5	7	11	6	10
Breathing apparatus (Proto)	1	1					1			64
Compression pump (Proto)										3
Compression pump (Draeger)			1	1	1	1		1	1	3
Pulmotor Type A	1	1	2	1	1	1	1	1	1	10
Pulmotor Type B										1
Lungmotor		1		1				1		2
Inhalation apparatus	1	1		1			1			5
Animal air tester	1	1	1	1	1	1	1	1	1	9
Meter for testing Reducing Valves	1	1	1	1	1	1	1	1	1	9
Electric cap lamp (Edison)	12		12				12	12	12	60
Electric cap lamp (Wico)		12								12
Stretchers	2	1	1	2	1	1	1	1	1	11
First aid cabinet	1	1	1	1	1	1			1	7
Oxygen cylinders, 100 cub. ft. capacity (Proto)	12			8	5	5	9	10		49
Oxygen cylinders, 150 cub. ft. capacity (Draeger)		6	8						8	52
Stick caustic soda in lbs.	972	500	102	580	298	100	700	550	712	4,514
Lump caustic soda in lbs.	2,800	3,060	132	2,820	1,384	1,100	2,730	1,850	2,500	18,376
Smoke helmets	6	6		5	5		3	3		28
Rectifier for re-charging electric lamps				1				1		2
Air generator for Gibbs apparatus.			400							400
Canvas tent 12x14		1								1
Charging racks for Edison electric cap lamps	1		1				1	1	1	5
Spare rubber breathing bags	9	10	1	9	1	1	8	5	5	64

In addition, a sufficient supply of spare parts is kept at each car and station, so that repairs can be promptly made should any part of the apparatus become defective at any time.

The schedule of training at the stations and cars is as follows:

#### FIRST DAY.

Explanation of the apparatus by the Superintendent and demonstration with the pulmotor, lungmotor and inhalation apparatus, compression pump and animal air tester.

#### SECOND DAY.

Each member of the crew takes apart and assembles the apparatus, repeating the same until all are fully familiar with each part. Each member of the team demonstrates the application of the pulmotor, lungmotor and inhalation apparatus.

#### THIRD DAY.

Each member of the team wears the apparatus for two hours in fresh air while walking a distance of one mile.

#### FOURTH DAY.

Each member of the team wears the apparatus one hour in fresh air and one hour in smoke room in a vitiated atmosphere, making five trips through a tunnel 35 feet in length by 18 inches in height by 24 inches in width.

#### FIFTH DAY.

The members of the team wear the apparatus for two hours in a vitiated atmosphere in the smoke room, and build a brick stopping 6 feet square.

#### SIXTH DAY.

The members of the team wear the apparatus for two hours in a vitiated atmosphere in the smoke room, and build a brick stopping 6 feet square, after which they make 10 trips through a tunnel and carry 1,000 lbs. of rock a distance of 30 feet.

#### SEVENTH DAY.

Team makes a trip underground, carrying a stretcher for a distance of two miles.

#### EIGHTH DAY.

The work done on the seventh day is repeated.

#### NINTH DAY.

The work done on the sixth day is repeated.

#### TENTH DAY.

The team wear the apparatus for two hours and transport a weight of 100 lbs. on a stretcher up an incline rising 1 in 7 and 1,000

yards in length, then proceed into a vitiated atmosphere in the smoke room and build a brick stopping 6 feet square with a regulator 24 inches square through which a man is carried on the stretcher.

At the finish of each period of training each member of the team is required to thoroughly clean the apparatus he has been using, and to re-charge the small cylinder and re-assemble the apparatus, leaving it ready for use.

The complete course lasts ten days of two hours each. The method of procedure in the past has been that six months after this course was concluded the person who had undergone training was required to present himself for another day's training, after which, if he was found to be satisfactory, a certificate was awarded to him.

Arrangements have now been made that in future examinations will be held at each car and station, during the months of March and April in each year, of all persons who have taken a course of instruction during the previous year, before certificates will be granted for efficiency in Mine Rescue Work.

Although there has been an excessive shortage of men caused by the high percentage of miners who have enlisted for overseas service, the training in connection with first aid and mine rescue work has been carried on satisfactorily. One hundred and eighty men have undergone training in mine rescue work and 131 men in first aid work during the year.

Classes for the purpose of giving instruction in first aid work have been taken advantage of at a large number of the mines, with the result that the students who attended these classes have been successful in obtaining first aid certificates for 1st, 2nd and 3rd year from the St. John's Ambulance Association.

Arrangements have been made whereby two teams are selected from the trained men at each mine and each member of the team is required to take at least three hours' training during each month, for which he is paid 50c per hour. This payment is made by the Provincial Government, on receipt of a time-sheet from the superintendent of each car and station.

The teams are composed of five men each, one of whom is appointed captain. These arrangements were put into effect on the 1st of November, 1916, and are giving satisfaction.

Before any person is allowed to commence training in the use of the mine rescue apparatus, he is required to undergo a very strict medical examination.

In addition to the apparatus provided at the stations and cars the following mines have installed resuscitation devices:

Name of Mine	Pulmotor		Lungmotor
	Type A	Type B	
West Canadian Collieries, Ltd., Bellevue--	2	-----	1
International Coal & Coke Co., Ltd.-----	1	-----	-----
Hillcrest Collieries, Ltd -----	-----	-----	1
	3	-----	2

The following table gives particulars as to the number of persons trained in first aid and mine rescue work at the different mines in the Province since this work was first organized, but does not include those who may have been trained elsewhere than in the Province:

Name of Mine	No. of persons trained previous to 1918		No. of persons trained during 1918	
	Mine Rescue	First Aid	Mine Rescue	First Aid
C. P. R. No. 6 Mine -----	107	93	10	20
C. P. R. No. 3 Mine -----	40	27	5	10
North American Collieries, Ltd., Coal-				
hurst -----	73	77	5	-----
Chinook Coal Co., Ltd., Commerce ----	34	43	5	15
Rock Springs Coal & Brick Co., Ltd.----	15	10	-----	-----
Canada West Coal Co., Ltd., Taber----	40	40	-----	10
West Canadian Collieries, Ltd., Blair-				
more -----	33	10	5	-----
West Canadian Collieries, Ltd., Belle-				
vue -----	68	30	-----	-----
McGillivray Creek Coal & Coke Co., Ltd.	30	40	5	5
Leitch Collieries, Ltd., Passburgh -----	10	10	-----	-----
International Coal & Coke Co., Ltd.----	38	72	-----	20
Hillcrest Collieries, Ltd. -----	27	5	5	31
Franco-Canadian Collieries, Ltd. -----	20	-----	-----	-----
Burmis Coal Co., Ltd. -----	10	5	-----	-----
Maple Leaf Coal Co., Ltd. -----	5	5	-----	-----
Brazeau Collieries, Ltd. -----	57	35	10	20
Canmore Coal Co., Ltd. -----	55	12	5	-----
C. P. R. Co., Bankhead -----	35	10	5	-----
Georgetown Collieries, Ltd. -----	13	-----	-----	-----
Jasper Park Collieries, Ltd. -----	50	30	10	-----
Mountain Park Collieries, Ltd. -----	-----	-----	10	-----
Western Commercial Co., Ltd. -----	10	-----	5	-----
Rosedeer Coal Mining Co., Ltd. -----	10	-----	5	-----
Western Gem Mining Co., Ltd. -----	10	-----	10	-----
Rosedale Coal & Clay Products Co., Ltd.	5	-----	10	-----
Drumheller Land Co., Ltd. -----	5	-----	5	-----
Premier Coal Co., Ltd. -----	5	-----	5	-----
Star Coal Mines, Ltd. -----	5	-----	5	-----
Alberta Block Coal Co., Ltd. -----	5	-----	10	-----
Newcastle Coal Co., Ltd. -----	5	-----	5	-----
Midland Collieries, Ltd. -----	10	-----	5	-----
North American Collieries, Ltd. -----	5	-----	5	-----
Sterling Coal Co., Ltd. -----	5	-----	-----	-----
Atlas Coal Co. -----	-----	-----	5	-----
Scranton Coal Co., Ltd. -----	-----	-----	5	-----
Peerless Coal Co., Ltd. -----	-----	-----	5	-----
Hamilton Coal Co. -----	-----	-----	5	-----
Excelsior Collieries, Ltd. -----	-----	-----	5	-----
Big Valley Collieries, Ltd. -----	5	-----	5	-----
	845	564	180	131

It will be noted from this table that 1,025 men have undergone training with mine rescue apparatus and 695 men in first aid work.

One call was made during the year for Mine Rescue Car No. 1 by the Franco-Canadian Collieries on April 3rd. The use of the mine rescue apparatus was not required.

During the year no accidents have occurred in connection with the training of mine rescue crews. The Proto apparatus has proved to be very satisfactory, and training at all stations and cars has been carried on very efficiently during the year.

All expenses and salaries in connection with the equipment and operation of the stations and cars are paid by the Provincial Government, the mine operators being assessed one-half of the cost at the end of each calendar year. This arrangement was put into effect when the mine rescue work was commenced in the Province, and is working satisfactorily.

The Canadian Mining Institute has installed, at each station and car, a branch library and provides the following publications: "Coal Age," "Colliery Engineer," "Science and Art of Mining," and "The Colliery Guardian," to which all mine employees and mining students have access.

The contest in first aid and mine rescue work was held at Lethbridge on July 1st, mine rescue teams taking part in the contest from the following mines in the Province: McGillivray Creek Coal and Coke Co., Ltd., Coleman; the International Coal & Coke Co., Ltd., Coleman; the North American Collieries, Ltd., Coalhurst; the C. P. R. No. 6 mine, Lethbridge; and the Drumheller Land Co., Drumheller. Teams taking part in the senior first aid contest were from Michel, Coleman, McGillivray, Commerce and Taber. Teams taking part in the junior first aid contest: Michel, Lethbridge, and Lethbridge Boy Scouts.

The successful contestants in the mine rescue competition were as follows: 1st, Drumheller Land Co., who were awarded the 1st prize and gold medals; 2nd, North American Collieries, Ltd., Coalhurst team, who were awarded 2nd prize with silver medals. The prizes in First Aid work were awarded as follows: 1st prize, with shield and gold medals, to the team from Michel, B.C.; 2nd prize with silver medals to the team from Coleman. The prizes in the Junior First Aid were awarded as follows: 1st prize with medals to team from Michel, B.C.; 2nd prize with watch fobs to team from Lethbridge.



Table showing Accidents during 1919 classified according to the mines in the DOMESTIC Field in which they occurred :

Name of Operator	District	ABOVE GROUND				BELOW GROUND				Total above and below
		Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Marcus Collieries, Ltd.	Clover Bar	..	..	..	..	..	1	..	1	1
P. J. McPeak	Edmonton	..	..	..	..	..	2	3	5	5
City Collieries	Edmonton	..	..	1	1	..	..	4	4	5
Edmonton Collieries, Ltd.	Edmonton	..	..	..	..	..	..	4	4	4
Namoo Collieries, Ltd.	Namoo	..	..	1	1	..	..	..	..	1
Cardiff Collieries, Ltd.	Cardiff	..	1	..	1	..	1	2	3	4
North Amer. Colls., Ltd.	Pembina	1	..	..	1	..	2	1	3	4
		2	5	4	11	7	23	28	58	69

NAME	ADDRESS	CERT. No.	DATE ISSUED
Lennant, William G. -----	Lethbridge -----	403	10-4-18
Larair, Charles F. -----	Drumheller -----	416	10-4-18
Lamb, Robson -----	Rosedale -----	448	10-4-18
Muir, David -----	Lovett -----	342	23-1-18
Moldowan, William -----	Pocahontas -----	349	15-2-18
Morgan, William J. -----	Coalspur -----	351	15-2-18
Mathewson, Archibald -----	Frank -----	362	14-3-18
Morris, David -----	Bellevue -----	382	14-3-18
Mossey, Thomas -----	Lethbridge -----	408	10-4-18
Marsh, William -----	Drumheller -----	423	10-4-18
March, James -----	Wayne -----	424	10-4-18
Moore, Thomas E. -----	Drumheller -----	437	10-4-18
Milligan, Robert -----	Rosedale -----	447	10-4-18
McAulay, Daniel -----	Pocahontas -----	350	15-2-18
MacKinnon, Hugh G. -----	Canmore -----	354	11-3-18
McAndrews, John -----	Blairmore -----	355	11-3-18
McKinnon, Alex. D. -----	Coleman -----	376	14-3-18
MacDonald, John H. -----	Nordegg -----	397	20-3-18
McQueen, George -----	Nordegg -----	398	20-3-18
McDonald, George -----	Drumheller -----	417	10-4-18
McKenzie, John -----	Wayne -----	421	10-4-18
McAskill, Donald -----	Drumheller -----	439	10-4-18
McMillan, Daniel -----	Drumheller -----	442	10-4-18
McGladrie, Andrew -----	Lethbridge -----	411	10-4-18
North, Walter J. -----	Blairmore -----	359	11-3-18
Oakley, John -----	Mountain Park -----	393	20-3-18
Prentice, John G. -----	Frank -----	364	14-3-18
Pelpian, Mike -----	Commerce -----	365	14-3-18
Petrunia, John Andrew -----	Lethbridge -----	406	10-4-18
Powell, Albert E. -----	Wayne -----	427	10-4-18
Randall, David -----	Coleman -----	375	14-3-18
Robert, Louis P. -----	Bellevue -----	399	20-3-18
Roberts, George -----	Taber -----	404	10-4-18
Riddoch, Thomas -----	Aerial -----	419	10-4-18
Roberts, David O. -----	Wayne -----	428	10-4-18
Redpath, James -----	Wayne -----	431	10-4-18
Reid, Edward -----	Drumheller -----	440	10-4-18
Shaw, William -----	Calgary -----	353	7-3-18
Sono, Christopher -----	Blairmore -----	358	11-3-18
Siminick, Alex. -----	Commerce -----	366	14-3-18
Sihom, William -----	Canmore -----	369	14-3-18
Stirling, James -----	Nordegg -----	391	20-3-18
Smith, Thomas Edwin -----	Coalhurst -----	405	10-4-18
Sinclair, James -----	Drumheller -----	444	10-4-18
Thidyma, John -----	Pocahontas -----	347	15-2-18
Tisdale, James R. -----	Nordegg -----	387	20-3-18
Thomas, Joseph D. -----	Aerial -----	433	10-4-18
Talot, William -----	Drumheller -----	446	10-4-18
Williams, Louis A. -----	Pocahontas -----	344	15-2-18
Wilson, William G. -----	Nordegg -----	394	20-3-18
White, John Marvin -----	Lethbridge -----	410	10-4-18
Williamson, John -----	Wayne -----	425	10-4-18
Wheatcroft, Fred -----	Drumheller -----	432	10-4-18
Zuskar, Andrew -----	Stafford Village -----	367	14-3-18

## ANALYSIS OF COAL.

Date on which sample was taken	Name of person taking sample	Kind of sample	Name of mine from which sample was taken	Address	Proximate Analysis				Calorific Value in B. T. U.	Remarks
					Moisture	Volatile Matter	Fixed Carbon	Ash		
22- 1-18	Wm. Stevenson	Mine---	McGillivray Creek Coal & Coke Co., Ltd.	Coleman	1.57	24.87	58.42	14.14	12530	No. 1, Main entry.
5- 2-18	Wm. Stevenson	Mine---	West Canadian Coll., Ltd.	Bellevue	0.60	25.25	57.25	16.90	12440	Room 120, Mine 2.
6- 2-18	Wm. Stevenson	Mine---	West Canadian Coll., Ltd.	Bellevue	2.10	27.51	52.93	17.46	11940	No. 1 Mine.
14- 2-18	Moses Johnson	Mine---	Can. West Coal Co., Ltd.	Taber	13.14	34.38	41.29	11.19	9510	Main entry.
14- 2-18	Moses Johnson	Mine---	Can. West Coal Co., Ltd.	Taber	13.98	33.61	41.07	11.34	9830	Main entry.
26- 4-18	Moses Johnson	Mine---	Federal Coal Co. Ltd. (No. 1)	Lethbridge	9.85	38.10	41.65	10.40	10280	No. 1 entry.
30- 4-18	Moses Johnson	Mine---	Henderson & Shaw	Lethbridge	8.88	39.82	42.40	7.90	10680	
17- 5-18	Moses Johnson	Mine---	C. P. R. No. 6 Mine.	Lethbridge	10.63	34.01	47.43	7.93	10770	West entry.
18- 5-18	Moses Johnson	Mine---	Chinook Coal Co., Ltd.	Commerce	9.02	30.89	50.59	9.50	10680	Main slope.
22- 5-18	Moses Johnson	Mine---	Rock Springs Coal & Brick Co., Ltd.	Elcan.	10.70	33.40	46.60	9.30	10690	West entry.
23- 5-18	Moses Johnson	Mine---	Regal Collieries, Ltd.	Taber	14.45	32.29	45.54	7.72	10210	Main entry.
28- 5-18	Moses Johnson	Mine---	George Bragdon	Thelma	10.64	35.28	45.39	8.69	10440	Main entry.
29- 5-18	Wm. Stevenson	Mine---	Hillcrest Coll., Ltd.	Hillcrest	1.20	27.22	57.48	14.10	12830	Main entry.
30- 5-18	Wm. Stevenson	Mine---	Franco-Can. Coll., Ltd.	Frank	0.90	28.92	59.86	10.32	13220	Main entry.
6- 6-18	Moses Johnson	Mine---	Alfred Jackson	Grassy Lake	12.53	32.71	47.43	7.34	10650	No. 1 room.
11- 6-18	Moses Johnson	Mine---	Henry Theriault	Champion	12.06	33.33	45.53	9.08	10130	Main entry.
11- 6-18	Wm. Stevenson	Mine---	International Coal & Coke Co., Ltd.	Coleman	2.00	27.05	54.28	16.67	12280	"A" level.
25- 6-18	D. McDonald	Mine---	Alberta Block Coal Co., Ltd	Drumheller	17.25	30.81	42.23	9.71	9180	"C" entry.
25- 6-18	D. McDonald	Mine---	Atlas Coal Co. Ltd.	Drumheller	19.84	30.63	42.34	7.19	9580	So. entry.
25- 6-18	D. McDonald	Mine---	Newcastle Coal Co., Ltd.	Drumheller	19.57	30.56	42.26	7.61	9310	E. entry.
7- 7-18	J. A. Richards	Mine---	Humberstone Coal Co., Ltd.	Beverly	23.00	28.64	38.23	9.13	8770	Main entry.
7- 7-18	J. A. Richards	Mine---	Humberstone Coal Co., Ltd.	Beverly	21.98	29.63	41.00	7.39	8770	Main entry.
7- 7-18	J. A. Richards	Mine---	Humberstone Coal Co., Ltd.	Beverly	22.82	29.64	40.57	6.97	8785	Main entry.
7- 7-18	J. A. Richards	Mine---	Humberstone Coal Co., Ltd.	Beverly	20.24	29.62	40.78	9.36	8880	Main entry.
7- 7-18	J. A. Richards	Mine---	Humberstone Coal Co., Ltd.	Beverly	22.88	29.49	41.90	5.73	8870	Main entry.
11- 7-18	J. A. Richards	Mine---	Great West Coal Co., Ltd.	Edmonton	23.80	29.60	38.60	8.00	8570	Main entry.

## ANALYSIS OF COAL.—Continued.

Date on which sample was taken	Name of person taking sample	Kind of sample	Name of mine from which sample was taken	Address	Proximate Analysis				Calorific Value in B. T. U.	Remarks
					Moisture	Volatile Matter	Fixed Carbon	Ash		
11-7-18	J. A. Richards	Mine---	Great West Coal Co., Ltd.	Edmonton	24.60	29.70	40.10	5.60	8660	Main entry.
16-7-18	Moses Johnson	Mine---	Guthro & Annon	Winnifred	20.70	33.20	39.60	6.50	8990	Room No. 3.
25-7-18	Moses Johnson	Mine---	Federal Coals (No. 1)	Lethbridge	8.70	37.60	48.00	5.70	10865	North entry.
8-8-18	Moses Johnson	Mine---	C. P. R. Mine	Taber	13.20	31.30	44.80	10.70	9870	Room No. 2.
9-8-18	Moses Johnson	Mine---	Golden West Coal Mining Co., Ltd.	Taber	15.10	31.30	46.20	7.40	10190	N. E. Entry.
21-8-18	Moses Johnson	Mine---	Prairie Coal Co., Ltd.	Eyremore	15.90	34.40	41.70	8.00	9910	Main entry.
23-8-18	Moses Johnson	Mine---	Redcliff Brick & Coal Co., Ltd.	Redcliff	22.30	31.10	35.80	10.80	8710	Main entry.
29-8-18	Moses Johnson	Mine---	Ellis Bros.	Champion	14.00	33.20	43.90	8.90	9980	Main entry.
29-8-18	Moses Johnson	Mine---	W. E. Watkins	Champion	10.90	34.10	45.80	9.20	10330	Main entry.
3-9-18	Moses Johnson	Mine---	John K. Hamilton	Lethbridge	11.80	30.70	39.30	18.20	9330	Main entry.
5-9-18	D. McDonald	Mine---	Western Gem Mining Co., Ltd.	Drumheller	15.90	32.50	43.80	7.80	9680	Main entry.
5-9-18	D. McDonald	Mine---	Premier Coal Co., Ltd.	Drumheller	19.80	31.00	41.60	7.60	9020	Main entry.
12-9-18	Moses Johnson	Mine---	New Barnes Coal Mines	Lethbridge	10.70	33.90	47.10	8.30	10750	Main entry.
20-11-18	Moses Johnson	Mine---	John K. Hamilton	Lethbridge	14.00	28.70	39.30	18.00	9290	Main entry.
20-11-18	Moses Johnson	Mine---	Federal Coals, Ltd. (No. 2)	Lethbridge	14.70	27.70	37.40	20.20	9100	Back entry.

The following table gives the names and numbers of the districts, along with the name and address of the District Inspector of Mines in charge of each:

No. of District	Name of District	Name and Address of District Inspector of Mines
1 2	Crow's Nest Pass. Pincher Creek.	James Crowder, Blairmore, Alberta. Telephone No. 70.
3 4 5 6 7 8 9 10 16	Lethbridge. Magrath. Milk River. Taber. Bow Island. Medicine Hat. Aldersyde. High River. Brooks.	Moses Johnson, 204 Sherlock Block, Lethbridge, Alberta Telephone No. 325.
13 14	Drumheller. Big Valley.	Duncan McDonald, Calgary, Alberta. Telephone No. M2140.
17 19 12 20 21 11 15	Hanna. Trochu. Banff. Three Hills. Carbon. Canmore. Brazeau.	William Shaw, Calgary, Alberta. Telephone No. M2140.
18 22 23 24 25 26 27 28 29 30 31 32 33 34	Lacombe. Battle River. Camrose. Tofield. Clover Bar. Edmonton. Namao. Cardiff. Wabamun. Pembina. Jasper Park. Yellowhead Pass. Mountain Park. Peace River.	Robert J. Lee. 10167 115th Street, Edmonton, Alberta. Telephone No. 82150.

In addition to the above, Mr. James A. Richards, 11009 89th Ave., Edmonton, is acting in the capacity of General District Inspector of Mines. Telephone No. 3662.

## LIST OF MINES.

The following table gives particulars of mines which have been opened in the Province:

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of		
				S.	T.	R. M.		Open- ing	Aban- don- ment	Re- Open- ing
42	Alberta Railway & Irrigation Co.	Lethbridge	2	10	5	1	Domestic	1905	1906	---
76	Alberta Coal & Coke Co., The	Lundbreck	2	23	7	2	Domestic	1906	1909	---
129	Alberta Coal Mining Co., Ltd.	Edmonton	28	N. E. $\frac{1}{4}$	23	55	Domestic	1907	---	---
223	Adams Coal Mine Co., Ltd.	Lethbridge	3	S. E. $\frac{1}{4}$	16	10	Domestic	1910	1913	---
270	Arblaster & Lloyd	Bow Island	7	5	11	11	Domestic	1911	1913	---
390	Abel, W. S.	Kippenville	5	S. W. $\frac{1}{4}$	1	3	Domestic	1913	1916	---
432	Ashmore, James	Reid Hill	9	S. E. $\frac{1}{4}$	24	16	Domestic	1914	1915	---
443	Anderson, William John	Sheerness	17	L. S. 1	12	29	Domestic	1914	---	---
474	Armour & Stauffer	Morrin	14	L. S. 2	22	31	Domestic	1915	1915	---
475	Aune, George	Morrin	14	N. W. $\frac{1}{4}$	3	29	Domestic	1915	---	---
620	Alberta Block Coal Co., Ltd.	Drumheller	13	L. S. 7	17	38	Domestic	1915	---	---
631	Ardley Coal Co., Ltd.	Calgary	19	River Lot 20, Edmonton Settlement.	---	---	Domestic	1916	---	---
632	Alberta Penitentiary	Edmonton	26	---	---	---	Domestic	1915	---	---
658	Arndt, William	Boundary Creek	5	L. S. 1	15	1	Domestic	1916	---	---
672	Annon, Dominic	Winnifred	7	L. S. 3	27	12	Domestic	1916	---	---
684	Atlas Coal Co.	Drumheller	13	S. E. $\frac{1}{4}$	10	29	Domestic	1917	---	---
690	Ant Hill Coal Co., Ltd., The	Rowley	14	L. S. 4	32	21	Domestic	1917	---	---
703	Acme Coal Mining Co., Ltd., The	Wayne	13	L. S. 3	7	27	Domestic	1917	---	---
708	Auchenback, Andrew	Thelma	5	N. E. $\frac{1}{4}$	12	7	Domestic	1917	1917	---
712	Archibald, D.	Elcan	6	L. S. 8	4	10	Domestic	1917	1918	---
772	Ajax Coal & Mining Co., Ltd.	Medicine Hat	8	S. W. $\frac{1}{4}$	5	13	Domestic	1918	---	---
792	Allen, E. D.	Rosalind	22	N. E. $\frac{1}{4}$	18	43	Domestic	1918	---	---
25	Banach & Hoynak	Strathcona	26	Near Edmonton South.	---	---	Domestic	1897	1899	---

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R. M.		Open- ing	Aban- don- ment
26	Bailey, Robert	St. Albert	27	Near St. Albert.			Domestic	1897	1898
34	Bangs, J. A.	Lineham	10	Sheep Creek near Lineham.			Domestic	1897	1900
45	Baldwin, J.	Edmonton	26	Near Edmonton.			Domestic	1900	1905
46	Bush Mine Coal Co., The	Beverly	25	River Lot 42, Edmonton Settlement.			Domestic	1905	
72	Blackfoot Indians	Gleichen	16	Indian Reserve, S. of Gleichen.			Domestic	1902	
117	Bothamley, C. F.	Three Hills	20	L. S. 10	23	31	Domestic	1906	1908
137	Bennett, Isaac	Reid Hill	9	N. W. ¼	4	16	Domestic	1907	1915
143	Bell, W. J.	Bowville	10	N. E. ¼	25	14	Domestic	1907	1913
151	Bostock, Charles	Reid Hill	3	L. S. 15	24	16	Domestic	1907	
153	Burnis Coal Co.	Burnis	1	N. E. ¼	14	7	Bituminous	1907	1916
167	Ben Nevis Mines, Ltd., The	Nevis	18	S. E. ¼	11	39	Domestic	1908	
168	Beaver Dam Coal Co.	Nevis	18	N. E. ¼	2	39	Domestic	1908	1913
176	Bradshaw Mining Co.	Magrath	4		2	7	Domestic	1908	1913
187	Blacklock, Alex.	Carbon	21	S. W. ¼	15	29	Domestic	1909	
206	Burdett City Coal Co.	Burdett	7	L. S. 11	18	10	Domestic	1910	1910
229	Berford, Edward	Taber	6		10	16	Domestic	1910	1917
232	Bawlf Collieries, Ltd., The	Bawlf	23		10	46	Domestic	1910	1913
234	Baker, Hoge & Baker	Eyremore	16		11	17	Domestic	1910	1916
237	Banner Coal Co.	Cardiff	28	L. S. 5	24	55	Domestic	1910	
240	Belcourt, Louis	Britain	18	N. W. ¼	32	29	Domestic	1910	1918
245	Bish Bros. & Le Gear	Forestburg	22	L. S. 13	36	40	Domestic	1910	
248	Bish Bros. & Company	Hastings Coulee	22	L. S. 4	1	41	Domestic	1910	
256	Brazeau Collieries, Ltd.	Nordegg	15	N. W. ¼	22	40	Bituminous	1910	
284	Big Chief Coal Mining Co., Ltd.	Kimball	5	N. W. ¼	9	1	Domestic	1911	1913
288	Baines, Herbert	Gadsby	18	S. E. ¼	28	39	Domestic	1911	1916
300	Bullock Coal Mining Co.	Pincher Creek	2		16	6	Domestic	1911	1913

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R. M.		Open- ing	Aban- don- ment
302	Battle River Collieries, Ltd.	Rosenroll	23	S. E.	7	46	Domestic	1911	1917
305	Bonnie Brae Coal & Quarries, Ltd.	Cochrane	11		6	26	Bituminous	1911	1912
356	Brown, Moses	Medicine Hat	8	N. E.	28	12	Domestic	1912	1916
364	Big Valley Collieries, Ltd.	Big Valley	14	N. W.	1	36	Domestic	1912	
365	British Collieries, Ltd.	Red Deer	15		43	20	Bituminous	1912	1913
385	Bathurst Mining Co.	Diamond City	3		5	10	Domestic	1912	1915
372	Block Coal Collieries, Ltd.	Taber	6	N. ½	19	10	Domestic	1913	1916
391	Black, William	Lucky Strike	5	L. S.	8	3	Domestic	1913	1914
401	Bergram, F.	Halkirk	18		18	39	Domestic	1913	1915
404	Consolidated with No. 433	Lineham	10		2	20	Domestic	1913	
406	Burns Coal Mines, Ltd., P.	Calgary	11		18	6	Bituminous	1913	1915
416	Bennie, James Scott	Lucky Strike	5		3	3	Domestic	1911	1914
306	Blue Diamond Coal Co., Ltd.	Brule Mines	31	L. S.	16	50	Bituminous	1914	
429	Blacklock, David B.	Lineham	10	S. W.	1	20	Domestic	1914	1914
433	Bye, E. F.	Lucky Strike	5	L. S.	16	3	Domestic	1914	1914
435	Borthwick, Alexander	Pincher Creek	2	S. W.	17	5	Domestic	1914	1918
452	Berford, Edward	Warner	5	L. S.	12	4	Domestic	1914	1914
454	Brooks, Edmund J.	Hill Springs	2	L. S.	9	28	Domestic	1914	1914
456	Brooks, Burton Thomas	Pincher Creek	13	L. S.	16	6	Domestic	1914	1914
457	Bradley & Watson	Drumheller	9	L. S.	23	29	Domestic	1915	
464	Blusson, Joseph	Champion	10	L. S.	33	15	Domestic	1915	
476	Black Diamond Oil Field, Ltd.	Lineham	17	L. S.	29	14	Domestic	1915	1915
485	Brown, Charles E.	Hanna	19	S. 6 & 7	29	32	Domestic	1915	
486	Ball, Matthew	Breda	5	N. E. ¼	10	35	Domestic	1915	1916
619	Brisco, Frank	Hill Springs	34	L. S.	3	4	Domestic	1916	1918
647	Brown, Samuel H.	Halcourt	9	L. S.	6	21	Domestic	1916	1918
655	Bennett, Isaac	Armada	9	L. S.	9	16	Domestic	1916	1918



## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				N. E. 1/4	S. T. R.	W. M.		Open- ing	Re- Open- ing
665	Bergren & Anderson	Gadsby	18	N. E. 1/4	21	39	Domestic	1916	
689	Bragdich, George	Thelma	5	L. S.	18	7	Domestic	1917	
700	Brooks & King	Elcan	6	L. S.	2	10	Domestic	1917	1917
716	Bare, W. R.	Maycroft	2	L. S.	9	10	Domestic	1917	
736	Blacklock, Dave	Lineham	10	S. 1/2	2	20	Domestic	1918	
755	Brisco, Frank	Cardston	5	W. 1/2	34	3	Domestic	1918	
757	Bow City Coal Co.	Eyremore	16	S. W. 1/4	32	17	Domestic	1918	
774	Britannia Collieries, Ltd.	Wabamun	29	R. A. between 7 & 8	53	4	Domestic	1918	
780	Brooks, C. T.	Bow Island	7	L. S.	2	11	Domestic	1918	
781	Bow City Coal Co.	Eyremore	16	S. E. 1/4	6	17	Domestic	1918	
786	Burns Coal Mines, Ltd., P.	Calgary	11	L. S.	3	14	Bituminous	1918	
2	Canmore Coal Co., Ltd.	Canmore	11	L. S.	29	24	Bituminous	1896	
3	Canadian Pac. Ry. Dept. Nat. Res.	Lethbridge	3	L. S.	13	9	Domestic	1895	
9	Clover Bar Coal Co., Ltd.	Edmonton	26	S. W. 1/4	18	53	Domestic	1897	
14	Consolidated with No. 9	Edmonton	26	L. S.	1	53	Domestic	1897	
32	Cardiff Collieries, Ltd., The	Cardiff	28	N. W. 1/4	24	55	Domestic	1902	
44	Carpenter, Ella	St. Albert	27	S. W. 1/4	17	55	Domestic	1897	1899
62	Cresswell, Charles	Medicine Hat	8	Near Medicine Hat.			Domestic	1902	1906
63	Cameron, John	Okotoks	10	Near Okotoks.			Domestic	1902	1904
178	Consolidated with 397	Namoo	27	S. E. 1/4	8	55	Domestic	1908	
80	Can. Pac. Ry. Dept. Nat. Res.	Bankhead	12	S. E. 1/4	19	26	Anthracite	1903	
83	Consolidated Coal Mining Co.	Medicine Head	8	L. S.	2	9	Domestic	1905	1907
105	Canada West Coal Co., Ltd., The	Taber	6	L. S.	7	31	Domestic	1905	
121	Carbon Brick & Coal Co.	Carbon	21	L. S.	19	29	Domestic	1906	
132	Canadian Pacific Railway Co.	Taber	6	L. S.	14	7	Domestic	1907	
147	City Collieries	Edmonton	26	Fraser Flats, Edmonton.	7	10	Domestic	1907	1911

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R.		Open- ing	Re- Open- ing
207	Carbon Hill Coal & Coke Co.	Spokane	1	S. E.	1/4	3	Bituminous	1909	1913
230	Conins, R. W. K.	Cochrane	11	S. E.	6	26	Bituminous	1910	1910
247	Chinook Coal Co., Ltd.	Commerce	3	L. S.	12	10	Domestic	1910	1910
260	Connor Coal Mining Co., Ltd.	Wabamun	29	S. W.	1/4	14	Domestic	1910	1916
293	Coal Securities, Ltd.	Frank	2	S. W.	1/4	53	Domestic	1911	1913
316	Cardston Coal & Coke Co.	Cardston	5	N. W.	1/4	2	Domestic	1911	1913
321	Campbell, Robert J.	Sheerness	17	L. S.	7 & 8	2	Domestic	1911	1913
339	Collins, James A.	Coalspur	32	N. W.	1/4	29	Bituminous	1912	1913
386	Cameron Bros.	Namao	27	S. W.	1/4	48	Domestic	1913	1915
387	Cable Bros. & Williams	Gadsby	18	N. W.	1/4	28	Domestic	1913	1916
597	Carbondale Collieries, Ltd.	Edmonton	27	S. E.	1/4	39	Domestic	1913	1916
93	Cameron, John	Edmonton	26	R. L.	18	55	Domestic	1913	1906
420	Clarke & Davis	Namao	27	S. E.	1/4	8	Domestic	1913	1915
424	Consumers' Coal Co., Ltd.	Wabamun	29	S. W.	1/4	17	Domestic	1914	1917
438	Curran, J. D.	Banff	11	S. W.	1/4	22	Anthracite	1914	1918
473	Cooke, W. R.	Morrin	14	S. E.	1/4	31	Domestic	1915	1916
492	Cattenach, Donald	Garden Plain	17	S. E.	1/4	34	Domestic	1915	1915
609	Carlson, John	Donalda	22	S. W.	1/4	42	Domestic	1915	1915
629	Calgary Copper Co., Ltd.	Calgary	12	Three miles north of Eldon.		17	Copper	1915	1915
634	Clarke, A. C.	Verdant Valley	13	N. E.	1/4	14	Domestic	1916	1916
657	Coldren, Earl	Peace River	34	L. S.	3	28	Domestic	1916	1918
693	Cadomin Coal Co., Ltd.	Cadomin	33	L. S.	14	83	Bituminous	1917	1917
704	Cuming, E. E.	Foreman	22	L. S.	12	46	Domestic	1917	1917
680	Chapman, George	Erskine	13	S. E.	1/4	37	Domestic	1917	1917
722	Christie Oil Co.	Calgary	11	L. S.	1	26	Bituminous	1917	1918
726	Colter, Evert Charles	Drumheller	13	L. S.	16	12	Domestic	1918	1918
732	Carlson, J. W.	Maleb	7	L. S.	13	8	Domestic	1918	1918

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				L. S.	S.	T. R. M.		Open- ing	Aban- don- ment
744	Chaley, Mike	Wayne	13	L. S. 7	19	28 19	Domestic	1918	1918
767	Conlin, John	Carbon	21	L. S. 11	15	29 23	Domestic	1918	1918
771	Central Alberta Hard Coal Co.	Lovett	32	E. ½	24	47 20	Bituminous	1918	1918
8	Daly, William	Clover Bar	26	N. W. ¼	7	53 23	Domestic	1903	1903
115	Dodds, Currie & Hoding	Carbon	21	L. S. 13	12	29 23	Domestic	1906	1906
106	Domestic Coal Co.	Taber	6	L. S. 6	1	10 17	Domestic	1905	1918
152	Driggs, H. A.	Grassy Lake	7	N. E. ¼	15	10 13	Domestic	1907	1910
155	Dawson Coal Co., Ltd.	Edmonton	26	River Lot 25, Edmonton Settlement.			Domestic	1907	1907
166	Dweak, R. E.	Alix	18		34	38 23	Domestic	1908	1918
173	Duncan, W. E.	Taber	6		29	9 16	Domestic	1908	1909
190	Durrant, R. B.	Livingstone	2	N. W. ¼	36	8 2	Domestic	1909	1910
236	Drowning Ford Coal Co., The.	Medicine Hat	8		32	15 5	Domestic	1910	1914
271	Donnelly, James	Milk River	5	L. S. 5	26	2 16	Domestic	1911	1911
273	Davis & Green	Halkirk	18	S. W. ¼	18	39 15	Domestic	1911	1911
385	Davis, Thomas	Noble	9	S. E. ¼	18	11 24	Domestic	1911	1913
287	Davidson, G. W.	Big Valley	14	S. W. ¼	36	25 20	Domestic	1911	1914
290	Davidson, R. T.	Big Valley	14	S. W. ¼	36	25 20	Domestic	1911	1914
298	Consolidated with 290	Big Valley	14	S. W. ¼	36	25 20	Domestic	1911	1914
299	Debrinski, John L.	Rosebud	13	S. W. ¼	29	26 21	Domestic	1911	1914
326	Davis, W. M.	Scollard	14		34	34 21	Domestic	1911	1914
340	Dobell Coal Co. of Toftfield, Ltd.	Toftfield	24	S. E. ¼	35	50 19	Domestic	1912	1912
349	Drumheller Land Co., Ltd.	Drumheller	13	N. E. ¼	2	29 20	Domestic	1912	1916
362	Duell, Richards	Long View	10		8	18 2	Domestic	1912	1916
381	Davies, Evan T.	Lucky Strike	5	L. S. 13	6	3 11	Domestic	1913	1914
425	Depew & Millar	Raymond	4		8	5 20	Domestic	1914	1914
463	Davis & Brown	Pincher Creek	2		27	5 29	Domestic	1914	1915

LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	W.		Open- ing	Re- Open- ing
463	Dennis, Wilson	Maycroft	2	N. E. ¼	31	10	2	1914	1915
605	Donaldson, Christopher S.	Commerce	3	L. S. 4	16	10	21	1915	1916
614	Dietrich Bros. & Johnson	Hastings Coulee	22	L. S. 4	14	42	17	1915	1916
641	Davies, Evan T.	Milk River	5	L. S. 4	35	2	16	1916	1916
669	Domestic Coal Co.	Taber	6	L. S. 3-6	1	10	17	1916	1916
707	Davidson, A. J.	Beverly	25	R. L. 40	Edmonton Dist.	15	3	1917	1918
735	DuRocherville Mining Co., Ltd., The	Nanton	10	L. S. 13	27	10	21	1918	1918
750	Donaldson, Christopher S.	Lethbridge	3	S. E. ¼	28	39	16	1916	1916
660	Davies, Elmer	Gadsby	18	River Lot 22, Edmonton	Settle- ment.			1897	1904
10	Edmonton Coal Co.	Edmonton	26	Near Edmonton.				1897	1898
20	Elliott & Louisberg	Edmonton	26	River Lot 20, Edmonton	Settle- ment.			1901	1904
50	Edmonton Coal Co.	Edmonton	26	River Lot 25, Edmonton	Settle- ment.			1902	1905
68	Evans & Robinson	Edmonton	26	S. E. ¼	9	18	2	1902	1911
70	Ellis, William	Okotoks	10	S. E. ¼	5	13	6	1906	1907
118	Evans, John	Medicine Hat	8	Grassy Lake	3	10	17	1907	1918
130	Elcan Valley Collieries, Ltd.	Elcan	6	Champion	9	10	13	1909	1914
213	Ervine, S.	Champion	7	S. W. ¼	8	16	23	1909	1913
218	Consolidated with No. 296	Milk River	9	S. E. ¼	32	2	15	1911	1913
259	Erickson Bros.	Champion	5	S. W. ¼	8	16	23	1913	1915
296	Ellis Brothers	Three Hills	9	S. W. ¼	36	21	24	1915	1916
384	Ellis Coal Co., Ltd.	Whitla	20	2½ miles South of Eldon.	24	12	8	1915	1917
410	Ensign, H. F.	Calgary	7						
628	Eldon Mining Co., Ltd.	Calgary	12						

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of		
				L. S.	T. R.	W. M.		Open- ing	Aban- don- ment	Re- Open- ing
699	Edmonton Collieries, Ltd.	Edmonton South	25	L. S. 15	8	53	Domestic	1917		
701	Eho, John	Drumheller	13	L. S. 10	11	29	Domestic	1917		
702	Enterprise Coal Company	Elcan	6	L. S. 13	3	10	Domestic	1917		
48	Franco-Canadian Collieries, Ltd.	Frank	1	N. W. ¼	30	7	Bituminous	1900	1918	
54	Federal Coals, Ltd. (No. 1)	Lethbridge	3	L. S. 5	35	8	Domestic	1902		
90	Fraser-Mackay Collieries, Ltd.	Edmonton	25	L. S. 12	8	53	Domestic	1904		
98	Consolidated with No. 90.	Glover Bar	25	L. S. 12	8	53	Domestic	1906		
323	Fortune, John	Bow Island	7	L. S. 8	14	9	Domestic	1911		
342	Footie, J. C.	Pleasant View	7	L. S. 9	7	9	Domestic	1912		
351	Fortin, W.	Legal	28		25	57	Domestic	1912		
600	Ferguson, David	Elcan	6		4	10	Domestic	1912		
656	Finguan, John K.	Halcourt	34	S. W. ¼	25	70	Domestic	1915		
667	Falkner, William	Alix	18		1	39	Domestic	1916		
688	Furler, W. R.	Ghost Pine	21		33	20	Domestic	1917		
713	Federal Coals, Ltd.	Lethbridge	3	L. S. 15	36	8	Domestic	1917		
733	Firth, Albert	Lethbridge	3	L. S. 4	11	8	Domestic	1917		
758	Fraser, Alec	Carmanagay	9	L. S. 6	31	14	Domestic	1918		
777	Farrar, Henry	Lomond	9	L. S. 9	29	15	Domestic	1918		
13	Gibbard & Boutwell	Namoo	27	S. W. ¼	17	55	Domestic	1898	1901	
27	Gough & O'Neil	St. Albert	27	Sturgeon River, near St. Albert.		24	Domestic	1896	1898	
35	Gillespie Bros.	High River	10	N. E. ¼	6	13	Domestic	1898	1909	
58	Great Northern Railway	Pincher Creek	2	South of Pincher Creek.		6	Domestic	1898	1901	
67	Gallagher & Hull	Edmonton	26	Near Edmonton South.		53	Domestic	1901	1906	
89	Great West Coal Co., Ltd., The	Edmonton	25		7	23	Domestic	1902	1903	
								1906	1914	

LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of		
				S.	T.	R. M.		Open- ing	Aban- don- ment	Re- open- ing
99	Great West Coal Co., Ltd., The	Edmonton	25	S. E. $\frac{1}{4}$	7	53	23	1903	---	---
127	Garneau, Larry, Jr.	Edmonton	26	River Lot 7, Edmonton Settlement.				1907	1908	---
162	Gillespie, Francis	Magrath	4	S. W. $\frac{1}{4}$	1	7	22	1907	1917	---
184	Good, Rola B.	Pincher Creek	2	N. W. $\frac{1}{4}$	11	11	1	1909	1911	---
200	Geddes, Day & Gibb	Medicine Hat	8		2	9	6	1909	1914	---
211	Green, H. V.	Halkirk	18	S. E. $\frac{1}{4}$	18	39	15	1909	1914	---
231	Georgetown Collieries, Ltd.	Cannore	11	N. W. $\frac{1}{4}$	1	25	11	1910	1916	---
278	Gorgenson, Sebb	Lucky Strike	5	L. S. 9	16	3	12	1911	1911	---
283	Great West Coal Co., Ltd., The	Edmonton	25	S. W. $\frac{1}{4}$	6	53	23	1911	1915	---
289	Gray, Armour	Gadsby	18	L. S. 10	28	39	16	1911	1914	1915
294	Gibson, George	Grassy Lake	7		25	9	13	1911	1913	---
297	Ginther, F. M.	Medicine Hat	8	S. W. $\frac{1}{4}$	12	13	9	1911	1912	---
536	Gardner, R.	Medicine Hat	8		3	16	5	1912	1912	---
352	Gainford Collieries, Ltd.	Gainford	30		14	53	6	1912	1914	---
359	Grant, John A.	Black Diamond	10		21	19	2	1912	1913	---
377	Gibson, George S.	Grassy Lake	7	L. S. 4	25	9	13	1913	---	---
378	Consolidated with No. 436	Aerial	13	S. E. $\frac{1}{4}$	28	28	19	1913	---	---
421	Goodie, Philip	Groton	5	L. S. 10	10	3	11	1913	---	---
436	Great West Coal Co., Ltd.	Aerial	13	S. E. $\frac{1}{4}$	28	28	19	1914	---	---
458	Gilruth, James A.	Fishburn	2	L. S. 8	27	4	28	1914	1914	---
459	Gardner, Fred	Swalwell	20		15	30	23	1914	1915	---
478	Giamarino, N.	Delia	17	L. S. 12	13	30	17	1915	1916	1918
487	Giedd, Fred	Dowling Lake	17	L. S. 2	3	33	16	1915	1915	---
603	Griffiths, Ewan	Donalda	22	L. S. 10	32	41	18	1915	1915	---
623	Gordon, D. R.	Trochu	19	S. W. $\frac{1}{4}$	32	33	22	1915	1916	---
645	Gwilliam, David	Namao	27	S. W. $\frac{1}{4}$	6	55	24	1916	1918	---

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R.		Open- ing	Aban- don- ment
687	Gibson, Samuel	Grassy Lake	7	L. S.	7	25	9	13	4
701	Gillespie & Kirkland	Drumheller	13	L. S.	10	11	29	20	4
724	Goss Collieries, Ltd.	Round Hill	23	S. W.	14	14	48	18	4
728	Gouge, Jesse	Drumheller	13		32	27	18	4	
747	Gouge, Jesse	Cluny	16		30	21	20	4	
760	Goss, M. T.	Round Hill	23		30	48	18	4	
6	Humberstone, William	Edmonton	26	River Lot 12,	Edmonton	Settle- ment.			
17	Holloway, R.	Strathcona	26	Big Island, N.	Saskatchewan				
40	Hillcrest Collieries, Ltd.	Hillcrest	1	N. E.	14	18	7	3	5
43	Humberstone Coal Co., Ltd., The	Beverly	25	L. S.	15	7	53	23	4
109	Harper Coal Co.	Edmonton	26	River Lot 22,	Edmonton	Settle- ment.			
134	Henderson Brothers	Reid Hill	9	N. E.	14	29	16	21	4
171	Hanna & Moe	Taber	6		27	9	16	4	
181	Hart, Edward	Taber	6	S. E.	14	11	10	17	4
189	Hedstrom Brothers	Carbon	21	S. W.	14	7	29	22	4
209	Head Syndicate, Ltd.	Burnis	1		9	7	4	5	
214	Halbert, William	Three Hills	20		22	31	24	4	
224	Henderson, Samuel	Brunetta	9		29	16	21	4	
254	Heighes, George	Lethbridge	3		27	10	21	4	
272	Hutchison, John S.	Bow Island	7	S. E.	14	15	9	11	4
274	Halkirk Collieries, Ltd.	Halkirk	18	N. E.	14	30	38	15	4
329	Heaney, John	Castor	18	N. E.	14	4	38	14	4
335	Hutchison, W. S.	Drumheller	13		14	29	20	4	

List of Mines—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				L. S.	S.	W. M.		Open- ing	Aban- don- ment
345	Henry, Charles F.	Bow Island	7	L. S. 13	6	8	Domestic	1912	1918
366	Holmes, Joseph	Grassy Lake	7	South of Grassy Lake.		10	Domestic	1912	1913
373	Hedrich, William	Trochu	19	S. E. ¼	20	33	Domestic	1912	1913
380	Haliday, George W.	Delia	17		28	30	Domestic	1913	1918
417	Hallett, Thomas	Castor	18	N. E. ¼	26	37	Domestic	1913	
426	Halbert, William	Trochu	19	N. E. ¼	12	33	Domestic	1914	1918
427	Hronek, Benjamin	Halkirk	18	N. E. ¼	18	39	Domestic	1914	
437	Hudson, William H.	Queenstown	9	L. S. 7	23	18	Domestic	1914	1915
472	Hildahl, Edwin	Morrin	14	L. S. 7	28	31	Domestic	1915	1917
477	Haliday, George W.	Delia	17	L. S. 3	28	30	Domestic	1915	
499	Hughes, Wm. R.	Elean	6	L. S. 2	4	10	Domestic	1915	
638	Harrison, Stephen	Lethbridge	3	S. W. ¼	35	8	Domestic	1916	1916
674	Hannah, G. G.	Lethbridge	3	L. S. 4	16	10	Domestic	1916	1918
676	Henderson & Shaw	Lethbridge	3	L. S. 12	12	9	Domestic	1916	
694	Hodgson, Joseph	Rowley	14	L. S. 13	12	32	Domestic	1917	
696	Hunter, John T.	Garden Plain	17	L. S. 16	36	33	Domestic	1917	1917
697	Hamilton Coal Co., Ltd.	Wayne	13	L. S. 7	18	28	Domestic	1917	
709	Halbert, David	Rose Lynn	19	L. S. 5, 12, 13, 17	29	12	Domestic	1917	1918
710	Halbert, William	Trochu	19	L. S. 16	14	33	Domestic	1917	
730	Hetherington, Frederick	Carmangay	9	L. S. 13	30	14	Domestic	1918	1918
754	Hamilton, W. L.	Pincher Creek	2	S.	27	6	Domestic	1918	
759	Hannah, G. G.	Lethbridge	3	L. S. 4	35	8	Domestic	1918	
761	Hamilton, J. K.	Beynon	13	L. S. 2	6	28	Domestic	1918	1918
764	Hutchinson, W.	Ferry Point	22	L. S. 13	27	18	Domestic	1918	
778	Hanson, C. H.	Sheerness	17	L. S. ¼	7	40	Domestic	1918	
748	Halbert, David	Gadsby	18				Domestic	1918	
791	Haywood, A.						Domestic	1918	



LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R. M.		Open- ing	Aban- don- ment
88	International Coal & Coke Co., Ltd.	Coleman	1	8	8	4	Bituminous	1903	---
111	Irvine, Thomas	Elcan	6	4	10	17	Domestic	1906	---
114	Independent Coal Co., Ltd., The	Elcan	6	S. E. ¼	4	10	Domestic	1906	1913
138	International Land Dev. Co.	Winnipeg	7	19	10	9	Domestic	1907	1907
159	Imperial Coal Co.	Taber	6	5	10	17	Domestic	1907	1910
748	Ivey, John	Drumheller	13	S. ½	6	28	Domestic	1907	1918
242	Johnson, John S.	Heatherbrae	22	S. W. ¼	15	44	Domestic	1910	---
269	James, C. K.	Halkirk	18	S. E. ¼	18	39	Domestic	1911	1913
280	Jasper Park Collieries, Ltd.	Pocahontas	31	L. S. 9	6	49	Bituminous	1911	---
312	James, C. K.	Gadsby	18	S. E. ¼	28	39	Domestic	1911	1913
371	Jacobson, John	Bow Island	7	L. S. 8	21	12	Domestic	1912	1913
407	Jaynes, Robert	Milk River	5	N. E. ¼	29	2	Domestic	1913	1915
462	Jeffrey, James	Maycroft	2	N. W. ¼	32	10	Domestic	1914	1915
470	Joberg, A. F.	Delia	17	N. W. ¼	21	30	Domestic	1915	1915
482	Consolidated with No. 470	Delia	17	N. W. ¼	21	30	Domestic	1915	1915
490	Jensen & Chiddley	Garden Plain	17	L. S. 14	18	33	Domestic	1915	1918
627	Jackson, Walter	Donalda	22	N. W. ¼	32	41	Domestic	1915	1916
642	Jennings, Peter P.	Pendant D'Oreille	5	S. ½ L. S. 5	22	2	Domestic	1916	---
679	Jackson, James	Donalda	22	L. S. 11	32	41	Domestic	1917	---
683	Jasper Park Collieries, Ltd.	Pocahontas	31	L. S. 9	12	49	Bituminous	1917	---
686	Jackson, Alfred	Grassy Lake	7	L. S. 1	27	9	Domestic	1917	1917
691	Jackson, Alfred	Grassy Lake	7	L. S. 15	23	9	Domestic	1917	1917
746	Jones, Samuel A.	Drumheller	13	L. S. 16	30	29	Domestic	1918	1918
782	Jay, G. D.	Rosebud	13	L. S. 14	31	27	Domestic	1918	---

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R.		Open- ing	Aban- don- ment
53	Knee Hill Coal Co., Ltd.	Carbon	21	S. W. 1/4	14	29	Domestic	1898	
69	Keith & Fulton	Edmonton	25	L. S. 16	7	53	Domestic	1902	
103	Knowlton, G. H.	Carstairs	11	L. S. 14	19	29	Bituminous	1905	1913
120	Kummer, William	Long View	10	S. W. 1/4	8	18	Domestic	1906	
125	Ketchum Coal Company	Edmonton	25	N. W. 1/4	7	53	Domestic	1906	
194	Knee Hill Coal Co., Ltd.	Ghost Pine Creek	21	N. W. 1/4	31	22	Domestic	1909	
219	Knowlton, G. H.	Bituma	11	L. S. 13	30	29	Bituminous	1910	1915
277	Kippen, Duncan	Kippenville	5	L. S. 8	35	2	Domestic	1911	1914
281	Knowlton, G. H.	Cremona	11	L. S. 13	30	29	Bituminous	1911	1913
315	Kusler, C. L.	Trochu	19	S. E. 1/4	14	33	Domestic	1911	
333	Kovaice, Frank	Granlea	7	S. W. 1/4	9	8	Domestic	1912	1916
360	Kerrison, T. W.	Standard	16	N. W. 1/4	2	25	Domestic	1912	
399	Koffler, Mike	Prosper	7	S. W. 1/4	13	7	Domestic	1913	1915
440	Kaye, Herschel	Maycroft	2	N. E. 1/4	11	10	Domestic	1914	1916
480	Klump, Dan	Dellia	17	L. S. 6	23	30	Domestic	1915	1915
484	Krozier, John	Hutton	16	N. E. 1/4	7	23	Domestic	1915	1918
496	Keehn, John	Dowling Lake	17	L. S. 7	3	33	Domestic	1915	
633	Kent, Johnson & Whitford	Bon Accord	28	N. E. 1/4	7	56	Domestic	1916	1918
635	Kurp, Theo.	Delbourne	19	L. S. 4	7	38	Domestic	1916	
790	Kurp, B. C.	Delbourne	19	L. S. 4	10	38	Domestic	1918	
126	Leitch Collieries, Ltd., The	Passburg	1						
131	Larson, Andrew	Travers	6	L. S. 9	14	7	Bituminous	1906	1915
185	Long, D. H.	Bow Island	7	L. S. 7	4	10	Domestic	1907	
192	Lethbridge, City of	Lethbridge	3	N. E. 1/4	36	11	Domestic	1909	1914
205	Lindquist, A. A.	Bow Island	7	L. S. 5	22	8	Domestic	1909	
309	Laarz, F. W.	Fraserton	17	S. E. 1/4	21	28	Domestic	1913	

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R.		Open- ing	Aban- don- ment
319	Lake View Coal Co.	Wabamun	29	L. S.	5	29	Domestic	1911	1914
324	Lavenne, Jules	Winnifred	7	L. S.	22	52	Domestic	1911	1916
330	Lees, W. R.	Pincher Creek	2	L. S.	25	10	Domestic	1911	1918
375	Lohrmann & Baxter	Garden Plain	17	L. S.	7	34	Domestic	1912	1918
400	Lavenne, Jules	Winnifred	27	E. ½, L. S.	8	10	Domestic	1913	1918
419	Lakeside Coals, Ltd.	Wabamun	29	L. S.	15	33	Domestic	1913	1918
423	Loiselle & Heinke	Trochu	19	N. E. ¼	22	22	Domestic	1914	1917
441	Linder, Karl	Halkirk	18	L. S.	5	39	Domestic	1914	1918
467	Lancaster & Willan	Camrose	23	L. S.	29	46	Domestic	1915	1915
601	Law, George	Round Hill	23	N. E. ¼	10	48	Domestic	1915	1915
613	Lindquist & Anderson	Donalda	22	L. S.	7 & 8	14	Domestic	1915	1918
618	Lux & Harrison	Foreman	22	L. S.	9	26	Domestic	1915	1918
677	Lavenne, Jules	Winnifred	7	L. S.	1	21	Domestic	1917	1917
698	Lanark Coal Co.	Elcan	6	L. S.	2	4	Domestic	1917	1918
706	Lyon, H. E.	Morley	11	L. S.	3	17	Bituminous	1917	1917
719	Lytkowski, William P.	Donalda	22	L. S.	1	5	Domestic	1917	1917
740	Lindquist, Victor	Aerial	13	L. S.	11-12	29	Domestic	1918	1918
751	Lavenne, Jules	Winnifred	7	L. S.	2	27	Domestic	1918	1918
5	Martin, Robert	Strathcona	26	River Lot 26, Edmonton Settlement.			Domestic	1897	1902
12	Martin & King	Strathcona	26	River Lot 26, Edmonton Settlement.			Domestic	1897	1904
15	Marsh & Neeb	Strathcona	26	River Lot 18, Edmonton Settlement.			Domestic	1897	1902
52	Mays Coal Co.	Edmonton	25		7	53	Domestic	1901	1902

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R.		Open- ing	Aban- don- ment
60	Martin, E. D.	Strathcona	26	River Lot 25, Edmonton Settlement.			Domestic	1902	1904
74	Milner & Shoeman	Edmonton	25	7	53	23	4	Domestic	1903
100	Martin Brothers	Edmonton South	26	20	51	1	5	Domestic	1905
124	Marsh, John	Elcan	6	4	10	17	4	Domestic	1906
133	Maple Leaf Coal Co., Ltd.	Bellevue	1	16	7	3	5	Bituminous	1907
140	Marsh, John	Elcan	6	19	7	3	4	Domestic	1907
158	Marsh Brothers	Elcan	6	S. E. 1/4	4	10	17	Domestic	1908
175	Marsh, John	Taber	6	29	9	17	4	Domestic	1908
180	Mills, Jonathan J.	Grassy Lake	7	L. S. 13	9	13	4	Domestic	1908
266	Murphy, M. T.	Bow Island	7	S. 1/2	9	12	10	Domestic	1911
282	Mountain Park Coal Co., Ltd.	Edmonton	33	33	45	23	5	Bituminous	1911
292	Morris, John	Pincher Creek	2	16	6	30	5	Domestic	1911
331	Mitchell, A. E.	Bow Island	7	S. W. 1/4	3	10	11	Domestic	1913
367	Midland Collieries, Ltd.	Midlandvale	13	L. S. 10	9	29	20	Domestic	1912
395	Molloy, Andrew	Picture Butte	3	L. S. 14	27	10	21	Domestic	1913
434	M. P. Collieries	Elcan	6	L. S. 8	4	10	17	Domestic	1914
451	Meheltz, Frank	Botha	18	S. E. 1/4	11	39	16	Domestic	1914
466	Moore, Clark	Eyremore	16	S. W. 1/4	15	17	17	Domestic	1915
489	Murray, John	Grassy Lake	7	L. S. 15	32	41	18	Domestic	1915
604	March, Adam	Donalda	22	L. S. 1	28	42	17	Domestic	1915
615	Martin, Charles F.	Heistler	22	L. S. 1	24	37	22	Domestic	1915
617	Morland Brothers	Stettler	18	S. W. 1/4	8	43	17	Domestic	1915
622	Miner, Albert	Bawlf	22	L. S. 16	22	2	7	Domestic	1916
649	Moody, James	Penadnt D'Oreille	5	L. S. 3	7	2	26	Domestic	1916
668	May, Frank	Beazer	5	L. S. 10	28	27	18	Domestic	1917
675	Murray, John N.	Drumheller	13	L. S. 10	28	27	18	Domestic	1918

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R.		Open- ing	Aban- don- ment
685	Munton, Evan	Long Coulee	9	L. S.	4	17	Domestic	1917	
715	Murland, R.	Pincher Creek	22	S. W. $\frac{1}{4}$	16	5	Domestic	1917	
447	Martin, Louis	Loveland	22	N. W. $\frac{1}{4}$	28	40	Domestic	1914	1915
725	Miller & Iveson	Delia	17	L. S.	2	24	Domestic	1918	
727	Marx, G. W. D.	Huxley	19	L. S.	15	24	Domestic	1918	
752	Miller, J. K.	Drumheller	13	L. S.	3	2	Domestic	1918	
766	Mitchell, Joseph F.	Aerial	13	L. S.	3	21	Domestic	1918	
775	Manitoba Coal & Development Co.	Drumheller	13	L. S.	4	11	Domestic	1918	
779	Mosley, Aaron	Pincher Creek	2	N. W. $\frac{1}{4}$	17	6	Domestic	1918	
785	Martin, Sebastian	Forestburg	22	L. S.	5	33	Domestic	1918	
30	McPherson, A. D.	Black Diamond	10	L. S.	13	8	Domestic	1899	
49	McPeak, P. J.	Edmonton	26	112th Ave. & 76th St., Edmonton		20	Domestic	1905	1918
119	MacIntosh, C. G.	High River	10	L. S.	16	18	Domestic	1906	
149	McDevitt, J. J.	Tofield	24	S. W. $\frac{1}{4}$	24	50	Domestic	1907	
204	McGillivray Creek Coal & Coke Co., Ltd.	Coleman	1		17	8	Bituminous	1909	
217	McWilliams, Alex	Lethbridge	3		8	10	Domestic	1909	1911
222	McFarlane, William	Pincher Creek	2		27	6	Domestic	1910	1913
246	McCormack, A. D.	Castor	18	L. S.	14	34	Domestic	1910	
253	McKinnon, A. D.	Pincher Creek	2		35	5	Domestic	1910	1915
275	MacCormack, A. D.	Castor	18	N. W. $\frac{1}{4}$	3	38	Domestic	1911	
304	McLean, Hugh D.	Castor	18	S. E. $\frac{1}{4}$	34	37	Domestic	1911	
334	McAlister, Robert	Suffield	8		29	13	Domestic	1912	1914
343	McGuire, A. J.	Lethbridge	3		25	8	Domestic	1912	1913
385	McGuire, James S.	Trochu	19	S. E. $\frac{1}{4}$	16	33	Domestic	1913	1913
398	McCafferty, Thomas	Fertility	17		18	33	Domestic	1913	1915
405	McIntyre, William H.	Magrath	4	L. S.	3	24	Domestic	1913	

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R. M.		Open- ing	Aban- don- ment
408	McGuire, A. J.	Crow's Nest	1	L. S.	4	8	Bituminous	1913	1913
415	McRae Bros.	Parr	17	L. S.	5	29	Domestic	1913	1917
455	McPherson, Peter	Fishburn	2	S. E. 1/4	3	4	Domestic	1914	1916
468	McFadden & Farnell	Big Valley	14	L. S.	12	36	Domestic	1915	1916
612	McLean, Charles A.	Wildunn	17	L. S.	2	30	Domestic	1915	1916
644	McAlpine, Alex. H.	Kippenville	5	L. S.	6	1	Domestic	1916	1917
664	McTaggart & Morton	Erskine	18	N. E. 1/4	33	38	Domestic	1916	1917
714	McDonald, William	Champion	9	E. 1/2	L. S.	9	Domestic	1917	1917
418	Consolidated with 275	Castor	18	E. 1/2	L. S.	4	Domestic	1913	1913
57	Nash, Thomas	Pincher Creek	2	34	5	29	Domestic	1902	1913
141	Namao Coal Co.	Namao	27	3	55	24	Domestic	1907	1909
174	North American Collieries, Ltd.	Coalhurst	3	L. S.	2	21	Domestic	1908	1915
199	North American Collieries, Ltd.	Edmonton	2	9	6	2	Domestic	1909	1915
203	New Barnes Coal Mine Co.	Lethbridge	3	L. S.	9	21	Domestic	1909	1915
215	North American Collieries, Ltd.	Dodds	23	L. S.	11	49	Domestic	1909	1915
227	North American Collieries, Ltd.	Evansburg	30	S. E. 1/4	30	53	Domestic	1910	1916
257	Noble, William G.	Comet	16	L. S.	6	7	Domestic	1910	1916
267	North American Collieries, Ltd.	St. Albert	26	N. W. 1/4	28	53	Domestic	1911	1916
310	North Alberta Coal Syndicate	Pocahontas	31	29	49	26	Bituminous	1911	1913
317	Newcastle Coal Co., Ltd.	Drumheller	13	S. E. 1/4	9	29	Domestic	1911	1913
327	Nicol & Bradshaw	Trochu	19	S. W. 1/4	5	34	Domestic	1911	1913
348	Neisner, John	Munson	13	23	29	20	Domestic	1912	1916
350	Northern Construction Co.	Winnipeg	15	39	10	5	Bituminous	1912	1914
357	Nash, Thomas	Pincher Creek	2	27	4	28	Domestic	1912	1914
376	Nelson & Johnson	Trochu	19	30	34	21	Domestic	1913	1914
393	North Kootenay Pass Coal Co.	Frank	1	29	7	4	Bituminous	1913	1913

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of		
					S.	T. R.		Open- ing	Aban- don- ment	Re- Open- ing
						W. M.				
402	North American Collieries, Ltd.	Drumheller	13	Bet. Secs. 7 &	8	29	Domestic	1913		
412	New Era Coal Co., Ltd.	Wabamun	29		14	53	Domestic	1913	1915	
460	Noble, W. G.	Hutton	16		12	23	Domestic	1914		
692	Natrass, D. W.	Orion	5	L. S. 10	18	3	Domestic	1917		
37	Oliphant, John	Medicine Hat	8	L. S. 4	5	13	Domestic	1899		
56	Oliver, Benjamin	Magrath	4	L. S. 2	7	21	Domestic	1909	1918	
91	Ottewell, R. P.	Clover Bar	25	S. W. ¼	17	53	Domestic	1904		
295	Owen, J. H.	Pincher Creek	2	S. E. ¼	10	5	Domestic	1911		
648	Oliphant-Munson Collieries, Ltd.	Oliphant Mines	32	N. E. ¼	23	48	Bituminous	1916		
670	Olson, Emil	Hanna	17	S. W. ¼	19	29	Domestic	1916	1917	
769	Oliphant-Munson Collieries, Ltd.	Oliphant Mines	32	L. S. 2	35	47	Bituminous	1918		
789	Oukuski & Calvin Bros.	Donalda	22	L. S. 8	25	41	Domestic	1918		
24	Peerless Coal Co., Ltd.	Edmonton	26	L. S. 12-13	20	51	Domestic	1897	1917	1918
139	Patterson, Thomas	Elcan	6	S. E. ¼	26	9	Domestic	1907	1907	
145	Pincher Creek Coal Mining Co.	Pincher Creek	2		17	6	Domestic	1907	1913	
161	Perry, James	Lethbridge	3		2	7	Domestic	1907	1914	
197	Consolidated with 226 (Prairie Coal)	Eyremore	16		9	17	Domestic	1908		
210	Premier Coal & Coke Co., Ltd.	Frank	1		5	4	Bituminous	1909	1914	
226	Prairie Coal Co., Ltd.	Eyremore	16	S. E. ¼	16	17	Domestic	1910		
261	Paulson, P. A.	Coleman	5		9	7	Bituminous	1910	1913	
279	Peters, James	Milk River	1	L. S. 3	1	3	Domestic	1911	1918	
318	Poxon, John	Carbon	21	L. S. 9	29	30	Domestic	1911		
369	Petrie, J. H.	Strathcona	26		28	51	Domestic	1912	1913	
392	Peace River Collieries, Ltd.	Peace River	31		1	60	Bituminous	1913	1913	

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	R. M.		Open- ing	Aban- don- ment
394	Palmer Coal Co.	Burnis	1	25 miles S.W. of Burnis.			Bituminous	1913	1913
411	Pyrah, Samuel	Magrath	4	N. W. $\frac{1}{4}$ -----	8	8 21	Domestic	1913	1914
413	Page & Dayton	Raymond			29	4 20	Domestic	1913	1915
414	Popik, Dan	Berford	26	L. S. 3-----	4	48 27	Domestic	1913	1914
439	Premier Coal Co., Ltd.	Drumheller	13	L. S. $\frac{1}{2}$ L. S. 11 14	10 29	20 4	Domestic	1914	
444	Payne, Philip T.	Calgary	20	L. S. 7-----	36	11 11	Domestic	1914	
448	Pollitt, James B.	Bow Island	7	L. S. 8-----	30	41 17	Domestic	1914	
607	Pieming & Regal	Donalda	22	L. S. 1-----	11	29 23	Domestic	1915	1916
621	Pattison, Charles H.	Carbon	21	L. S. 1-----	6	29 14	Domestic	1915	
626	Poyart, Athol L.	Parr	17	S. E. $\frac{1}{4}$ -----	7	28 19	Domestic	1916	
643	Peerless Coal Co.	Wayne	13	L. S. 16-----	6	2 26	Domestic	1916	
650	Perulzo & Long	Beazer	5	L. S. 5-----	29	41 17	Domestic	1916	
662	Pickering, William H.	Donalda	22	N. E. $\frac{1}{4}$ -----	1	31 24	Domestic	1917	1917
681	Parge, Charles H.	Twining	20	L. S. 13-----	35	28 18	Domestic	1917	1917
723	Pattison, Robert	Verdant Valley	13	L. S. 13-----	16	42 17	Domestic	1917	
742	Pederson, Laurtez	Donalda	22	L. S. 13-----	14	49 21	Domestic	1918	
775	Porter, Robb & Morino	Coalspur	32	S. W. $\frac{1}{4}$ -----			Domestic	1918	
18	Ramsay & George	Edmonton South	26	River Lot 23, Edmonton Settlement.			Domestic	1897	1907
29	Radford, T. J.	Edmonton South	26	L. S. 11-----	25	51 25	Domestic	1897	
39	Reliance Coal Mining Co.	Taber	6	R. S. 1-----	3	9 16	Domestic	1905	1909
51	Ransome, M. E.	Edmonton	25	River Lot 42, Edmonton Settlement.			Domestic	1901	1906
55	Rollingson, John	Leithbridge	3	L. S. 4-----	18	7 21	Domestic	1902	
75	Rech, Charles	Namoo	27	L. S. 4-----	16	55 24	Domestic	1903	1917
82	Regal Collieries, Ltd.	Taber	5	L. S. 4-----	8	10 16	Domestic	1907	1916



## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				S.	T.	W. M.		Open- ing	Aban- don- ing
92	Royal Collieries, Ltd.	Royal View	3	S. E. ¼	31	9	Domestic	1904	1913
128	Rosedale Coal Co.	Edmonton	26	River Lot 28, Edmonton Settlement.	28	21	Domestic	1907	1909
154	Ralsbeck, Luke	Grassy Lake	7		9	10	Domestic	1907	1911
156	Rupert's Land Coal Co.	Oliver	25		11	54	Domestic	1907	1908
165	Redcliff Brick & Coal Co., Ltd.	Redcliff	8	L. S. 14	5	13	Domestic	1908	1908
169	Russell, John	Mitford	11		13	26	Bituminous	1908	1915
170	Rock Springs Coal & Brick Co., Ltd.	Elcan	6	L. S. 14	3	10	Domestic	1908	1908
172	Reynolds, H. I.	Elcan	5		4	10	Domestic	1908	1909
182	Raymond Coal Co.	Edmonton	25		27	53	Domestic	1908	1908
212	Ruscoe, Richard	Halkirk	18	N. W. ¼	8	39	Domestic	1909	1908
221	Riviere Qui Barre Coal Co.	Riviere Qui Barre	28	S. E. ¼	30	55	Domestic	1910	1913
228	Regal Collieries, Ltd.	Taber	6	L. S. 8	19	10	Domestic	1910	1913
250	Round Hill Collieries, Ltd.	Round Hill	23	S. E. ¼	30	48	Domestic	1910	1914
301	Robinson, U. G.	Big Valley	14	Near Big Valley.	31	40	Domestic	1911	1914
320	Rider Bros.	Gadsby	18	N. W. ¼	4	38	Domestic	1911	1913
225	Russian Coal Co., The	Castor	18	L. S. 8	9	13	Domestic	1911	1914
332	Redcliff Clay Products Co., Ltd.	Redcliff	8	N. W. ¼	22	12	Shale	1912	1914
344	Raber, Elsworth	Winnifred	7	L. S. 13	28	10	Domestic	1912	1914
346	Rosedale Coal & Clay Products Co., Ltd.	Rosedale	13	L. S. 14	28	19	Domestic	1912	1914
347	Rose Deer Coal Mining Co., Ltd.	Wayne	13	L. S. 13	7	28	Domestic	1912	1916
353	Roberts, William	Foremost	7		36	6	Domestic	1912	1913
363	Rathburn, L. F.	Long View	10		8	18	Domestic	1912	1913
379	Redcliff Pressed Brick Co., Ltd.	Redcliff	8	L. S. 5	9	13	Shale	1913	1918
431	Rembo, M. C.	Edson	30	N. W. ¼	2	53	Domestic	1914	1914
446	Ruffell, Alfred	Lethbridge	3	S. E. ¼	31	9	Domestic	1914	1914

LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of		
				S.	T.	R.		Open- ing	Aban- don- ment	Re- Open- ing
450	Robinson, William	Forestburg	22	L. S. 8	32	40	15	4	1914	1915
465	Raisbeck, Luke	Grassy Lake	7	S. E. 1/4	3	10	13	4	1915	1917
469	Ross, R. A.	Scollard	14	L. S. 9	34	34	21	4	1915	1917
479	Royal, Edward	Craigmyle	17	S. W. 1/4	12	41	17	4	1915	1915
493	Consolidated with 325 (E. Wimmer)	Castor	18	S. W. 1/4					1915	
606	Riley, John W.	Lundbreck	2	N. W. 1/4	26	7	2	5	1915	1916
608	Richmond, Andrew	Erskine	13	L. S. 15	10	38	22	4	1915	1916
653	Ray, George Alex	Halcourt	24	S. E. 1/4	25	70	11	6	1916	1917
671	Reed, Archer M.	Ghost Pine Creek	21	S. W. 1/4	28	30	22	4	1916	1917
718	Rataushk, Fred	Eagle Butte	8	N. E. 1/4	28	8	4	4	1917	
720	Rudolph Brothers	Edmonton South	26	L. S. 13	5	51	25	1	1917	
734	Robin Hood Coal Co.	Aerial	13	L. S. 11 & 14	21	28	19	4	1918	
738	Rollingson, G. W.	Lethbridge	3	L. S. 7	11	8	22	4	1918	
743	Rawlusk, Pete	Beynon	13	L. S. 1	30	27	20	4	1918	
763	Riverside Coal Co.	Aerial	13	S. E. 1/4	15	28	19	4	1918	
765	Redcliff Brick & Coal Co., Ltd.	Redcliff	8	L. S. 14	5	13	6	4	1918	
794	Resh, Samuel F.	Etzikom	7	S. W. 1/4	10	7	9	4	1918	
28	Stewart & Campbell	Namoo	27	N. E. 1/4	8	55	24	4	1897	1913
47	Strathecona Coal Co.	Edmonton South	26	River Lot 9, Edmonton Settlement.					1905	1911
61	Scott, Fred	Medicine Hat	8	S. E. 1/4	6	13	6	4	1906	1911
101	Sturgeon Consolidated Collieries, Ltd.	Edmonton	27	N. W. 1/4	9	55	24	4	1905	
110	Sutherland, Murdoch	Namoo	27	N. W. 1/4	4	55	24	4	1906	
135	Smith, T. Edwin	Carmangay	9	L. S. 2	36	14	22	4	1906	1917
144	Scott & MacLaine	Pincher Creek	2	L. S. 1	20	5	1	5	1907	1914
157	Southern Alberta Coal Co., Ltd., The	Taber	6	S. E. 1/4	8	10	17	4	1907	1911

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of		
				S.	T.	R.		Open- ing	Re- Open- ing	
163	Shirts, James E.	Taber	6	S. E. 1/4	30	10	16	4	1908	1911
185	Rushton, F. L., Consolidated with 244	Camrose	23						1909	1913
195	Standard Lethbridge Collieries, Ltd.	Lethbridge	3	S. E. 1/4	28	9	21	4	1909	1911
196	Speers, H.	Namoo	27	N. E. 1/4	8	55	24	4	1909	1914
202	Superior Coal Co., Ltd., The	Elcan	6	N. W. 1/4	18	10	16	4	1909	1913
238	Simpson, M.	Bow Island	7		36	11	11	4	1910	1913
239	Savage, George W.	Winulfred	7	L. S. 10	35	12	10	4	1910	1917
255	Straub, F. A.	Alix	19	S. W. 1/4	7	38	23	4	1910	1916
241	Spicer Coal Co., Ltd., The	Dinant	23	S. W. 1/4	18	48	19	4	1910	1917
244	Stony Creek Collieries, Ltd.	Camrose	23	L. S. 1	33	46	20	4	1910	1916
249	Schares, J. M.	Heisler	22	L. S. 9	16	42	17	4	1910	1916
250	Sinclair, A. C.	Rose Lynn	17		21	28	14	4	1910	1911
255	Straub, F. A.	Alix	19	S. W. 1/4	17	38	23	4	1910	1916
262	Smith, John H.	Sheerness	17	L. S. 2	19	29	12	4	1910	1917
263	Security Coal Mines Co., Ltd.	Wabamun	29	N. E. 1/4	14	53	4	5	1911	1913
264	Stavely Coal Mining Co.	Long Coulee	9	N. E. 1/4	29	14	21	4	1911	1911
265	Simanton, W. H.	Winulfred	7	S. E. 1/4	22	12	10	4	1911	1916
268	Strader & Green	Halkirk	18	S. E. 1/4	18	39	15	4	1911	1916
276	Stockett, George	Diamond City	3	L. S. 13	9	10	21	4	1911	1918
286	Square Deal Mercantile Co.	Big Valley	14	S. W. 1/4	26	35	20	4	1911	1913
307	Sanderson, William John	Long Coulee	9	N. W. 1/4	8	15	22	4	1911	1913
308	Santoni, Louis	Groton	5	L. S. 7	10	3	11	4	1911	1913
311	Seale, James	Kimball	5		22	1	25	4	1911	1913
355	Stanton, George F.	Munson	13		29	29	20	4	1912	1914
358	Salisbury, Robert A.	Winulfred	7	L. S. 12	22	12	10	4	1912	1914
368	Steegstra, Thomas	Comrey	5		4	2	6	4	1912	1918
370	Schmidt, Stephen	Prosper	7	L. S. 16	30	7	8	4	1912	1918

LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				E.	S.	T. R.		Open- ing	Aban- don- ment
388	Saunders Creek Domestic & Steam Coal Co.	Saunders	15	N. E. ¼	24	40	Bituminous	1913	
389	Smith, Frank	Namoo	27	L. S. 1	8	55	Domestic	1913	
422	Sterling Coal Co., Ltd.	Drumheller	13	L. S. 5	9	29	Domestic	1914	
461	Smith, T. Edwin	Yetwood	9	L. S. 9	28	15	Domestic	1914	
491	Steen, Herman	Parr	17	L. S. 16	18	29	Domestic	1915	
494	Smithson, Irving	Halkirk	18	L. S. 5	20	37	Domestic	1915	1916
498	Stulberg, Gus	Halkirk	18	N. E. ¼	6	37	Domestic	1915	
610	Strilszyk, Louis	Round Hill	23	L. S. 8	10	48	Domestic	1915	1918
625	Sickstrum, O. R.	Meeting Creek	22	L. S. 14	14	43	Domestic	1915	1917
636	Stewart, Robert	Della	17	S. W. ¼	6	30	Domestic	1916	1916
639	Spencer, Fred	Big Valley	14	L. S. 12	36	35	Domestic	1916	1918
663	Smith, T. Edwin	Long Coulee	9	L. S. 3	17	15	Domestic	1916	1917
666	Simmons, Efner W.	Hastings Coulee	22	N. E. ¼	2	41	Domestic	1916	1916
673	Strader, Lawson	Halkirk	18	N. E. ¼	18	39	Domestic	1916	
695	Scranton Coal Co., Ltd.	Drumheller	13	L. S. 5	10	29	Domestic	1917	
717	Shaw, Daniel	Castor	18	L. S. 2	34	37	Domestic	1917	
741	Sugars, Jackson & Ring	Edmonton	26	120th Ave. and 130th St. Edmonton.			Domestic	1918	
749	Stenhouse, A. D.	Carbon	21	L. S. 15	11	29	Domestic	1918	1918
753	Strickland, Thomas	Edmonton	27	L. S. 14	8	55	Domestic	1918	
756	Saunders Alberta Collieries, Ltd.	Saunders	15	L. S. 16	23	40	Bituminous	1918	
762	Stevenson, Archibald & Co.	Retlaw	6	L. S. 14	7	11	Domestic	1918	1918
768	Shannon & Conlin	Carbon	21	L. S. 1	14	29	Domestic	1918	
770	Shamrock Coal Co., Ltd.	Aerial	13	L. S. 10	20	28	Domestic	1918	
784	Strong & Porter	Rose Lynn	17	L. S. 1	34	28	Domestic	1918	

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.				Character of coal.	Date of	
				S.	T.	R.	W. M.		Open- ing	Aban- don- ment
16	Talbot, Mr.	Namoo	27	S. E. 1/4	17	55	24	4	1904	1908
59	Tonge, Thomas	Lundbreck Mine	2	N. E. 1/4	26	7	2	5	1902	---
104	Trusts & Guarantee Co., Ltd.	Lethbridge	3	L. S. 3	6	10	21	4	1905	---
112	Three Hills Coal & Dev. Co., Ltd.	Three Hills	20	S. W. 1/4	35	31	24	4	1906	1913
113	Trentham, Albert	Three Hills	20	L. S. 16	26	31	24	4	1906	---
136	Therriauf, Henry	Champion	9	L. S. 7	8	15	22	4	1907	---
150	Tofield Coal Co., Consolidated with 252	Tofield	24	---	---	---	---	---	1907	---
160	Thorne, John	High River	10	---	9	18	2	5	1907	1909
177	Twin City Coal Co., Ltd.	Edmonton South	26	River Lot 17, Edmonton Settlement.	---	---	---	---	1907	1908
225	Thomas, John	Diamond City	3	L. S. 13	9	10	21	4	1910	1911
252	Tofield Coal Co., Ltd.	Tofield	24	N. 1/2	26	50	19	4	1910	---
313	Tonge & Groton	Pincher Creek	2	L. S. 1	16	6	30	4	1911	1911
322	Trochu Coal Co., The	Trochu	19	S. E. 1/4	34	32	23	4	1911	1913
332	Thorps, George W.	Windy Ridge	7	L. S. 4	16	7	9	4	1913	1914
449	Turney, Mrs. E. M.	Hastings Coulee	22	L. S. 15	36	40	16	4	1914	---
481	Toth, John	Warner	5	L. S. 4	16	4	16	4	1915	1918
495	Thompson, Ole	Lousana	19	L. S. 16	12	36	22	4	1915	---
616	Tate, John	Ferry Point	22	S. E. 1/4	18	43	17	4	1915	1916
637	Trentham, William T.	Three Hills	20	L. S. 15	22	31	24	4	1916	---
652	Taft, John B.	Grand Prairie	34	N. E. 1/4	35	70	7	6	1916	1916
731	Tredway Co., D.	Alix	19	L. S. 16	33	38	23	4	1918	---
745	Thomas, Joseph D.	Aerial	13	N. W. 1/4	18	28	19	4	1918	1918
488	Unsworth, Robert	Garden Plain	17	L. S. 14	6	33	13	4	1915	1918
711	United Coal Co.	Elcan	6	L. S. 8	4	10	17	4	1917	---

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				L. S.	S.	W. M.		Open- ing	Aban- don- ment
788	Urwin, Wm.	Lethbridge	3	L. S. 1	18	7	Domestic	1918	1918
341	Vittario, Corraini	Prosby	7	L. S. 9	5	8	Domestic	1912	1912
651	Voz, Joseph	Grand Prairie	34	L. S. 14	35	70	Domestic	1916	1916
64	West Canadian Collieries, Ltd.	Blairmore	1	8	8	3	Bituminous	1902	1913
77	Welsh, William	Lundbreck	2	26	7	2	Domestic	1903	1913
87	West Canadian Collieries, Ltd.	Bellevue	1	L. S. 10	20	7	Bituminous	1903	1903
102	Wilson, John	Leduc	26	West of Leduc.	22	31	Domestic	1904	1905
116	Watson, George	Three Hills	20	L. S. 13	20	51	Domestic	1906	1915
122	Wetaskiwin Coal Co.	Strathcona	26	20	51	25	Domestic	1906	1915
142	Watson, George	Three Hills	20	22	31	24	Domestic	1907	1915
148	Western Coal, Ltd.	Edmonton	26	River Lot 31, Edmonton Settlement.			Domestic	1907	1915
179	Walker, Leo. J.	Milk River	5	L. S. 2	6	2	Domestic	1908	1908
186	Walwork, James	Bow Island	7	L. S. 5 & 6	16	29	Domestic	1909	1912
187	Watson & Pattison	Carbon	21	S. W. ¼	36	11	Domestic	1909	1917
193	West Canadian Collieries, Ltd.	Blairmore	1	S. E. ¼	35	7	Domestic	1909	1917
198	Watkins, Watkin E.	Champion	9	4	16	23	Bituminous	1909	1918
201	Watkins, James M.	Taber	6	L. S. 4	18	10	Domestic	1909	1918
243	Washkoski, Michael S.	Castor	18	S. E. ¼	26	37	Domestic	1910	1909
251	Wilkinson, Julius	Heisler	22	N. W. ¼	28	42	Domestic	1910	1910
291	Wagner, Joseph	Gadsby	18	S. W. ¼	28	39	Domestic	1911	1916
303	Watson, George	Three Hills	20	L. S. 11	22	31	Domestic	1911	1911
314	Waish, William R.	Ardley	19	S. E. ¼	29	38	Domestic	1911	1911
354	Wilson, J.	Della	17	N. W. ¼	21	30	Domestic	1912	1912
361	Woolings, Joseph	Priddis	10	N. W. ¼	7	22	Domestic	1912	1918
396	West Canadian Collieries, Ltd.	Blairmore	1	2	8	4	Bituminous	1913	1913

## LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of	
				L. S.	S. E.	W. M.		Open- ing	Aban- don- ment
409	Wall, J. H.	Raymond	4	L. S.	4	17	Domestic	1913	---
428	Wilcox, Fiss & Co.	Namoo	27	N. E.	1/4	8	Domestic	1914	1915
430	Weaver, Hugh	Edberg	22	L. S.	13	18	Domestic	1914	1915
442	Williscroft, W. & G.	Namoo	27	S. E.	1/4	3	Domestic	1914	1915
445	Wilson, Charles S.	Twining	20	L. S.	6	14	Domestic	1914	1918
471	Wooden, Clyde M.	Scollard	14	N. E.	1/4	18	Domestic	1914	---
497	Wadsworth, Samuel	Hanna	17	L. S.	1	19	Domestic	1915	---
602	Williamson, Arthur	Little Plume	8	L. S.	6	2	Domestic	1915	---
624	Williams, C.	Priddis	10	L. S.	4	22	Domestic	1915	1916
630	Washkoski, M. S., Consolidated with 243	Castor	13	S. E.	1/4	7	Domestic	1916	---
640	Western Commercial Co., Ltd.	Wayne	34	L. S.	14	24	Domestic	1916	1917
654	Waldo, Walter H.	Halcourt	13	L. S.	13	10	Domestic	1917	---
678	Western Gem Mining Co., Ltd.	Drumheller	26	L. S.	4	6	Domestic	1917	1918
682	Wedman, Gottlieb	Strathcona	17	W. 1/2 L. S.	10	18	Domestic	1917	1918
705	Wylie, Charles M.	Garden Plain	26	L. S.	10	29	Domestic	1917	1918
721	Worthington & Cunningham	Edmonton South	22	L. S.	3	5	Domestic	1917	1918
729	Wallace, A. L.	Donalda	13	L. S.	6	19	Domestic	1918	---
737	Wayne Coal Co., Ltd.	Wayne	9	L. S.	4	9	Domestic	1918	---
739	Watkins, W. E.	Champion	26	R. Lot 2, 121 St., Edmonton.	16	23	Domestic	1918	1918
773	West End Coal Co.	Edmonton	19	L. S.	12	21	Domestic	1918	---
787	Walsh, Wm. R.	Ardley	22	S. E.	1/4	3	Domestic	1918	---
793	Wisla, Albert	Heisler	32	S. W. 1/4	6	49	Bituminous	1910	---
220	Yellowhead Coal Co.	Coalspur	19	S. W. 1/4	13	34	Domestic	1911	---
328	Yard Brothers Coal Co.	Huxley	19	S. W. 1/4	10	34	Domestic	1911	1916
337	Yard, George C.	Trochu	19	S. W. 1/4	10	34	Domestic	1911	---

LIST OF MINES—Continued.

Mine No.	Operator.	Address.	District No.	Location.			Character of coal.	Date of		
				L. S.	S.	T. R. M.		Open- ing	Aban- don- ment	Re- Open- ing
646	Young, Charles H.	Garden Plain	17	1	1	34	Domestic	1916	---	---
661	Yard Brothers Coal Co.	Huxley	19	4	10	34	Domestic	1916	1918	---
383	Caswell, F. T., Consolidated with 403	Munson	13				Domestic	1913	---	---
403	Zarth & Embury	Munson	13	7	22	29	Domestic	1913	1916	---
611	Zehner, J. L.	Hanna	17	$\frac{1}{4}$	29	32	Domestic	1915	1918	---



## BOARD OF EXAMINERS.

The constitution of this Board during 1918 was as follows:

As representing:

- (a) The Mine Inspectorate:  
John T. Stirling, Chief Inspector of Mines.
- (b) Managers:  
Messrs. Robert Livingstone and William P. Williams.
- (c) Miners:  
Messrs. Evan Morgan and Andrew Goodwin.

Examinations were held during the year as follows:

For First and Second Class Certificates, on May 8, 9 and 10, 1918, at Blairmore, Lethbridge, Calgary, Edmonton, Nordegg and Mountain Park.

For Third Class Certificates, at Edmonton, on April 1, and April 9; Pocahontas, April 4; Mountain Park, April 6; Drumheller, April 16; Canmore, April 18; Taber, April 23; Lethbridge, April 24; Blairmore, March 22 and April 29; Nordegg, May 10; and Calgary, May 16.

For Mine Surveyors' Certificates, on May 19, at Blairmore, Lethbridge, Calgary, Edmonton and Nordegg.

Twenty-five candidates presented themselves for examination for First Class Certificates, of whom nine were successful; fifty-three for Second Class Certificates, of whom twenty-seven were successful; sixty-one for Third Class Certificates, of whom forty-seven were successful; and twelve for Mine Surveyors' Certificates, of whom seven were successful.

During the year, two hundred and twenty-three Provisional Certificates were issued authorizing the holders of these certificates to act as overmen until they had an opportunity of obtaining certificates by examination.

List of Names of Holders of First Class Certificatès issued by the  
Government of the Province of Alberta during 1918.

NAME	ADDRESS	CERT. No.	DATE ISSUED
Bilson, G. H. -----	Beverly -----	27	28- 6-18
Brown, H. R. -----	Commerce -----	26	28- 6-18
Brown, R. J. -----	Coal Creek -----	30	3- 7-18
McDonald, N. M. -----	Bellevue -----	33	9- 7-18
Puckett, O. L. -----	Drumheller -----	29	3- 7-18
Quigley, D. H. -----	Coalhurst -----	28	28- 6-18
Ramsay, P. M. -----	Canmore -----	34	12-11-18
Smith, T. E. -----	Coalhurst -----	31	3- 7-18
Watters, A. G. -----	Bankhead -----	32	5- 7-18

List of Names of Holders of Second Class Certificates issued by the  
Government of the Province of Alberta during 1918.

Blair, John -----	Edmonton -----	72	11- 7-18
Bovio, M. -----	Bellevue -----	61	5- 7-18
Brearley, G. -----	Eyremore -----	78	23- 7-18
Crawford, John -----	Pocahontas -----	64	6- 7-18
Crawford, W. S. -----	Lethbridge -----	66	9- 7-18
Fortner, E. -----	Saunders -----	57	3- 7-18
France, Thomas -----	Nordegg -----	67	9- 7-18
Hargreaves, G. -----	Lethbridge -----	70	9- 7-18
Hastings, A. P. -----	Bankhead -----	62	5- 7-18
Hulme, Charles -----	Nordegg -----	63	6- 7-18
Ironmonger, John -----	Hillcrest -----	60	5- 7-18
Jackson, John -----	Bellevue -----	56	3- 7-18
Joberg, A. F. -----	Delia -----	68	9- 7-18
Jones, C. E. R. -----	Cardiff -----	83	12-11-18
Larrrair, C. F. -----	Drumheller -----	74	12- 7-18
MacAskill, D. -----	Drumheller -----	77	16- 7-18
McKinnon, H. G. -----	Canmore -----	76	13- 7-18
McKinnon, J. L. -----	Coleman -----	80	26- 7-18
McQueen, A. -----	Nordegg -----	71	9- 7-18
Nugent, Bernard -----	Taber -----	73	11- 7-18
Park, William -----	Bellevue -----	65	6- 7-18
Richards, Evan -----	Evansburgh -----	59	3- 7-18
Roberts, G. -----	Taber -----	79	23- 7-18
Sinclair, James -----	Drumheller -----	81	7- 7-18
Tennant, R. -----	Lethbridge -----	58	3- 7-18
Tully, Thomas -----	Fernie, B. C. -----	75	12- 7-18
Worthington, T. -----	Lethbridge -----	69	9- 7-18

List of Names of Holders of Third Class Certificates issued by the  
Government of the Province of Alberta during 1918.

NAME	ADDRESS	CERT. No.	DATE ISSUED
Armstrong, P. M. -----	Nordegg -----	224	8- 6-18
Bobrovski, M. -----	Mt. Park -----	217	5- 6-18
Baird, William -----	Drumheller -----	218	5- 6-18
Brooks, Claude E. -----	Drumheller -----	220	8- 6-18
Campbell, G. P. -----	Nordegg -----	229	8- 6-18
Chapman, C. -----	Drumheller -----	232	12- 6-18
Collins, Sidney, G. -----	Edmonton -----	219	5- 6-18
Dawes, Edmund -----	Drumheller -----	222	8- 6-18
Dunnigan, E. -----	Bankhead -----	216	1- 6-18
Eno, John W. -----	Drumheller -----	223	8- 6-18
Gammie, J. S. -----	Drumheller -----	226	8- 6-18
Hartley, Thomas -----	Bankhead -----	227	8- 6-18
Head, James -----	Taber -----	209	1- 6-18
Hedges, R. -----	Beverly -----	239	29- 8-18
Hodgkinson, J. A. -----	Edmonton -----	205	1- 6-18
Hooks, J. W. -----	Calgary -----	210	1- 6-18
Hudyma, John -----	Pocahontas -----	207	1- 6-18
Jones, J. H. -----	Taber -----	214	1- 6-18
King, J. J. J. -----	Nordegg -----	221	8- 6-18
Klejko, S. -----	Coleman -----	213	1- 6-18
Lohmaier, P. -----	Sheerness -----	238	15- 7-18
Marsh, William -----	Drumheller -----	230	8- 6-18
Mathewson, J. -----	Nevis -----	236	22- 6-18
Mossey, Thomas -----	Lethbridge -----	237	5- 7-18
McDonald, G. -----	Drumheller -----	212	1- 6-18
Reid, Edward -----	Drumheller -----	206	1- 6-18
Reid, Samuel -----	Beverly -----	211	1- 6-18
Redpath, J. -----	Wayne -----	208	1- 6-18
Talbot, W. -----	Drumheller -----	235	22- 6-18
Tennant, W. G. -----	Lethbridge -----	228	8- 6-18
Thomason, C. -----	Michel, B. C. -----	234	14- 6-18
Tisdale, J. R. -----	Nordegg -----	231	8- 6-18
Watson, A. G. -----	Calgary -----	215	1- 6-18
Wheatcroft, F. -----	Drumheller -----	225	8- 6-18
White, J. M. -----	Lethbridge -----	233	14- 6-18

List of Names of Holders of Mine Surveyors' Certificates issued by the Government of the Province of Alberta during 1917 and 1918.

NAME	ADDRESS	CERT. NO.	DATE ISSUED
Brown, Thomas -----	Mountain Park -----	133	17-11-17
Cummings, Charles H. -----	Brule Mines -----	135	3- 7-18
Gheur, Ernest -----	Nordegg -----	129	22- 2-17
Hamilton, Allan -----	Blairmore -----	131	7- 7-17
Johnson, Moses -----	Lethbridge -----	130	7- 7-17
Kidd, Gordon L. S. -----	Calgary -----	132	10-10-17
Lindoe, Luke -----	Bellevue -----	136	3- 7-18
McDonald, John R. -----	Frank -----	138	22- 2-17
Ritchie, David W. -----	Edmonton -----	134	28- 6-18
Robinson, William E. -----	Coleman -----	139	11- 7-18
Sherwin, Paul M. -----	Frank -----	127	22- 1-17
Smith, Thomas E. -----	Coalhurst -----	137	3- 7-18
Smith, James H. -----	Edmonton -----	140	1- 8-18
Wright, Edwin -----	Bankhead -----	138	11- 7-18

## WAGES.

The scale of wages paid in the Province at the end of the year 1918 was the same as that paid at the end of 1917.

The general wage schedule now being paid is as follows:

## OUTSIDE WAGES.

	Per day	of	Hours
Bottom man .....	\$3.66	"	9
Slate pickers (boys) .....	1.76	"	9
Slate pickers (men) .....	3.16	"	9
Car oilers (men) .....	3.16	"	9
Car oilers (boys) .....	2.13	"	9
Tally boys .....	1.76	"	9
Teamsters .....	3.66	"	9
Blacksmiths .....	4.72	"	9
Blacksmiths' helpers .....	3.67	"	9
Carpenters .....	4.72	"	9
Carpenters' helpers .....	3.67	"	9
Power house engineers .....	5.35	"	11
Power house engineers .....	4.77	"	9
Power house engineers .....	4.19	"	8
Fan men .....	3.67	"	11
Hoisting engineers .....	3.97	"	8
Hoisting engineers .....	4.63	"	9
Hoisting engineers .....	5.35	"	11
Incline engineers .....	4.19	"	9
Tail rope engineers .....	4.46	"	8
Tail rope engineers .....	4.72	"	9
Endless rope engineers .....	4.08	"	9
Box car loader engineer .....	4.19	"	9
Tipple engineer .....	4.19	"	9
Screen engine tender .....	3.34	"	9
Locomotive engineer .....	4.19	"	9
Locomotive switchman .....	3.78	"	9
Fireman .....	3.66	"	8
Fireman .....	4.16	"	9
Fireman .....	4.72	"	11
Fireman's helper .....	3.34	"	9
Water tender .....	4.02	"	11
Railway car handler .....	3.28	"	9
Tipple dumper (man) .....	3.66	"	9
Tipple dumpers' helpers .....	3.33	"	9
Tipple dumper (boy) .....	2.13	"	9
Top cagers .....	3.33	"	9
Car Repairer .....	4.19	"	9
Car repairer's helper .....	3.67	"	9
Breaker engineer .....	4.19	"	9
Lampman (depending upon number of lamps and skill of man) .....	\$3.16 to 3.66	"	8
Lampman (depending upon number of lamps and skill of man) .....	\$3.16 to 4.19	"	11
Machinists .....	\$4.19 to 4.72	"	9
Machinist's helper .....	3.67	"	9
Ashman .....	3.16	"	9
Ashman .....	3.66	"	11
Wiper (man) .....	3.66	"	11
Coupler (man) .....	3.16	"	9
Coupler (boy) .....	2.13	"	9
Breaker oiler .....	3.66	"	10
Washer or tipple oiler .....	3.66	"	10
Breaker picker boss .....	3.66	"	9
Timber farmer .....	4.19	"	9
Timber sawyer .....	3.33	"	9
Box car shoveller .....	3.66	"	9
Breaker platform boss .....	3.66	"	9

## WAGES—Continued.

	Per day of	Hours
Breaker platform men -----	3.28	" 9
Breaker screen men -----	3.16	" 9
Rock bank men -----	3.16	" 9
Dirt bank men -----	3.16	" 9
Fan fireman -----	4.19	" 11
Stable men -----	3.16	" 9
Finisher after box car loader -----	3.16	" 9
All other labor not classified -----	3.16	" 9

## BEE HIVE COKE OVENS

Levelling and drawing (6½-ton charge per oven) --	1.50	
Levelling and drawing (5-ton charge per oven) ----	1.05	
Loading into box or open cars (over 20 tons per month) per ton -----	.23	
Loading into box or open cars (less than 200 tons per month) per ton -----	.21	
Steam locomotive engineer -----	4.19	" 9
Motorman -----	3.93	" 9
Lorryman -----	3.16	" 9
Plasterers -----	3.16	" 9
Carters and cleaners -----	3.16	" 9
All other labor -----	3.16	" 9

## BELGIAN COKE OVENS

Ram engine man -----	4.19	" 9
Chargers -----	3.66	" 9
Clayers -----	3.66	" 9
Drawers -----	3.66	" 9
Loaders -----	3.28	" 9

## BRIQUETTE PLANT

Engineer -----	4.73	" 11
Briquetter -----	4.86	" 11
Briquetter's helper -----	4.19	" 11
Tar Melter -----	3.66	" 11
Laborers -----	3.66	" 11

## INSIDE WAGES

Shot lighter -----	4.08	" 8
Bratticeman -----	4.08	" 8
Bratticeman's helper -----	3.47	" 8
Timberman -----	4.08	" 8
Timberman's helper -----	3.47	" 8
Tracklayers -----	4.08	" 8
Tracklayer's helper -----	3.47	" 8
Motorman -----	3.79	" 8
Locomotive engineer -----	3.79	" 8
Locomotive switchman -----	3.47	" 8
Drivers -----	3.79	" 8
Drivers (wet places) -----	4.08	" 8
Drivers (spike team) -----	4.31	" 8
Couplers (men) -----	3.47	" 8
Couplers (boys) -----	2.13	" 8
Switch boys ----- \$1.76 to	2.13	" 8
Door boys -----	1.42	" 8
Fan boys ----- \$1.42 to	2.13	" 8
Rope riders -----	3.79	" 8
Main and tail rope riders -----	4.08	" 8
Pushers -----	3.47	" 8
Buckers -----	3.47	" 8
Loaders -----	3.47	" 8
Miners -----	4.08	" 8
Miners (wet places) -----	4.60	" 8
Miners' laborers (wet places) -----	3.88	" 8
Rock miners -----	4.60	" 8

WAGES—*Continued.*

	Per day of	Hours
Timber handlers -----	3.79	" 8
Cagers, slope and incline -----	3.47	" 8
Cagers, shaft -----	4.08	" 8
Machinemen -----	4.60	" 8
Machinemen's helpers -----	4.08	" 8
Pumpmen -----	3.47	" 8
Pumpmen (Galt mines) -----	3.97	" 8
Hoistmen ----- \$3.79 to	4.08	" 8
Drivers (boys) ----- \$2.13 to	3.47	" 8
Grippers -----	3.47	" 8
Grippers (boys) ----- \$2.13 to	3.47	" 8
Pipe fitters' helpers -----	3.47	" 8
Pick carriers ----- \$1.76 to	3.47	" 8
Clutchmen -----	4.08	" 8
Rollermen -----	3.47	" 8
All other labor not classified -----	3.47	" 8

NOTE: From August 1st, 1917, 20 cents per day; from December 1st, 1917, 34 cents per day; from April 1st, 1918, 54 cents per day; from August 1st, 1918, 79 cents per day, and from December 1st, 1918, 92 cents per day were paid to all persons in addition to the rates mentioned above.

Your obedient servant,

JOHN T. STIRLING,

*Chief Inspector of Mines.*

